

New species of humid tropical American Muscoidea^(*)

BY

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With the exception of 6 species, duly noted, all the material treated in this paper was collected by the writer. For lists of the abbreviations used in the descriptions, see «Fauna Sumatrensis, Diptera Muscoidea II, III» in SUPLEMENTA ENTOMOLOGICA (Berlín), N.o 14, 39-42 (1926); N.o 16, 72-73 (1927). With the single exception noted, all the types are in the writer's collection.

Euselenomyia brasiliensis n.sp.—Bl, 6 mm.; wl, 5 mm. 6 ♂, Itaquaquecetuba, São Paulo, Brazil, Dec. 14, on fls *Perezia cubatanensis*.

H. light golden, locc silvery, fp & fel grayish; frl rich brown, an brackish, plp brown; plr very pale golden on middle, rest thinly silvery; msc & sc pale golden, 3 heavy equal black thv reaching tip sc; ab pale golden pol, 3 confluent brown vittae on 1st 3 sgs, less distinct on 4sg which is more deeply rusty pol; 1 blackish, w clear, sq sordid-whitish; no mm, on 1sg ♂.

Anicia brasiliiana n.sp.—Bl, $5\frac{1}{2}$ mm.; wl, $4\frac{1}{2}$ mm. 1 ♀, Itaquaquecetuba, S. P., Brazil, Nov. 19, near bee burrow in soil.

H. silvery, the widest portions of pfrl & pfel bright brassy; frl, an & plp blackish; th silvery, disk rusty, 4 blackish thv, iv narrower & stopping on front $\frac{1}{5}$ of psc; a 5th or mv pale brown extending from middle of prsc to tip of sc & widening posteriorly; ab tessellate with rusty-ashy & silvery-whitish pollen, the white showing on outer side of last 3 sgs & the rusty between but changea-

(*) Es este el trabajo anunciado en la pág. 346 del tomo XXXI (1927) de esta «Revista». Por haber llegado hacia fin del año no alcanzamos a incluirlo y lo dejamos para el presente tomo.—(N. DE LA RED.)

ble; 1 black, w nearly clear, sq whitish. In profile the pfrl & pfcl project beyond e fully $\frac{1}{2}$ the horizontal diameter of same; no mm on 1sg; frl widened on hind $\frac{1}{2}$ to 2x their width at ba.

Pachygraphia frontalis n.sp.—Bl, $5\frac{1}{2}$ to 8 mm.; wl, 4 to $6\frac{1}{2}$ mm. 10 ♂ & 3 ♀, Itaquaquecetuba, S. P., Brazil, Oct. 23 to Feb. 28, on fls *Sapium biglandulosum* & *Baccharis* & on foliage.

Cinereous, pfrl, fc and ch rather silvery; plp fulvous, brownish apically; frl & an brownish-black 2an red; whole th & ab thickly cinereous pol with a brassy tinge; 3 brownish thv, mv narrower; ab showing brownish in mv & narrow hind margins of sgs; 1 blackish, tb obscurely reddish; w nearly clear, narrowly pale yellow on costa, faintly fuscous on M1, M2 & M3; sq nearly white.

Cordilleroderia colombiana n.sp.—Bl, $16\frac{1}{2}$ mm.; wl, 15 mm. 1 ♂, Colombia (sent by Dr. Walther Horn). Type in collection Deutsche Entomologische Institut.

Differs from *C. orientalis* by an rufofulvous, 3an dusky terminally, frl light fulvous-brown, sc rufofulvous, ab more fulvous than yellow & tip not black but 4sg tinged with pale brownish on disk, 1 largely rufofulvous; w faintly yellowish-smoky, darker on extreme base, sq pale fulvous-tawny; ep somewhat more narrowed & epl fully eq epw, ch $\frac{2}{3}$ el, fr more narrowed before oct ♂ and frl practically pinched out, strip of md of 2sg width of 1 pr brs, nearly front $\frac{1}{2}$ of 3sg bare of spines except in middle, 4 pr ds, 4 strong ls, M1 less bowed in.

Platyrrhinoderia moyobambensis n.sp.—Bl, 13 mm.; wl, 12 mm. 1 ♂, Moyobamba, Peru, Nov. 12, on herbage.

H. tawny pol, pfrl & uocc golden; locc grayish silvery, frl dark brown, an & plp fulvous, ar dusky; plr gray-silvery pol, msc and pale gold, 5 usual blackish-brown thv, iv narrower; ab light fulvous-yellow, mv & hind borders of isgs brownish, the border broader on 3sg; 4sg more fulvous, thinly silvery pol on sides and vn, faintly golden above; traces of same pollen showing on tergum of isgs by oblique view; 1 brown, over basal $\frac{1}{2}$ of f fulvous; w well

infusate especially along wv, slightly more yellowish costobasally; sq yellowish-smoky.

Paratheresia bassleri n.sp.—Bl, 9 to 10 mm; wl, 8 to 9 mm. 2 ♂ and 2 ♀, Río Ushpayacu, Peru, 1,300 ft. Sept., on sweaty packs (Dr. Harvey Bassler).

H very pale golden pol; locc, ocar of ch, fp & fel silvery, frl & an blackish-brown, banjs rufous especially ♀; plp fulvous; plr silvery, scutum & sc very pale golden like h; 3 black thv equal in length & width, wide & reaching hind edge of psc; ab ♀ brownish, ♂ showing rufous beneath pollen, all of tergum pale golden pol, vn silvery; l very dark brown, w clear, sq sordid-whitish.

Paratheresia rufiventris n.sp.—Bl, 8 1/2 mm.; wl, 8 mm. 1 ♂, taken with preceding (Dr. Harvey Bassler).

Differs from *P. bassleri* by pollen of h & th silvery, with only faint suggestion of brassy on sc & adjacent parts of psc; 5 blackish thv, ov interrupted, iv linelike, mv narrower than ov; ab deep rufofulvous throughout, silvery pol, tergum faintly brassy.

Sarcoprosena rufiventris n.sp.—Bl, 8 1/2 to 9 mm.; wl, 6 1/2 to 7 mm. 1 ♂ & 1 ♀ taken with preceding (Dr. Harvey Bassler).

H silvery, frl blackish, an & plp fulvous; th & ab pale golden pol, plr & vn more silvery; 5 blackish thv, iv linelike & confined to prsc, mv very narrow before ts & wide behind, ov same width as mv behind ts & moderately interrupted; ab deep rufofulvous beneath the pollen, latter leaving on last 3 sgs a pr of polished fulvous-brwn triangles which are confluent on vn, hind margin & median hollow of 1sg fulvous-brown; l blackish; w faintly smoky on apical 1/2, rest clear; sq glassy-white to tawny with yellowish edges.

Pseudeuanta nubilis n.sp.—Bl, 8 1/2 mm.; wl, 8 1/2 mm. 1 ♀, Tremembé de Cantareira, São Paulo, Brasil. Sept. 2, indoors.

Black; fc & ch silvery, plp reddish-fulvous; pfrl, th & sc ashy-silvery, msc with metallic cupreous luster, 4 dark thv, iv narrow; ab shining black, front 1/2 last 3 sgs silvery pol thinning posteriorly; tb faintly reddish to

fulvous; w infusate costally on over distal 1/2 & along wv, proximal 1/2 yellow extending obliquely from stigma to basal section of A1 (first axillary vein); sq nearly white.

Dejeaniopalpus brasiliensis n.sp.-Bl, 7 to 8 mm.; wl, 6 1/2 to 7 mm. 1 ♂, & 1 ♀, Itaquaquecetuba, S. P., Brazil, Sept. 15, on foliage; & Nov. 20, on fls of *Cordia curassavica*.

H silvery-white, hind portion pfrl & uocc pale gold; frl brownish-fulvous, 2an & plp fulvous, 3an & ar blackish; th gray-silvery, sc & msc pale golden, 4 nearly equal narrow blackish thv; ab pale yellow; mv, small lateral flecks on hind margins of 1st 2 sgs & large lateral spots of last 2 sgs blackish, spots of 3sg continued on vn; last 3 shs thinly silvery-white on bases, very narrowly on 2sg; f & ftb deep fulvous, cx paler, htb & mtb brownish, t blackish; w faintly tinged, nearly clear; sq glassy with pale yellowish edges. Tergum of ♀ ab shining black, 1sg fulvous except narrow hind edge & mv; bases of last 3 sgs silvery-white.

Leskiomina australis n.sp.-Bl, 6 mm.; wl, 5 mm. 1 ♀, Itaquaquecetuba, S. P., Brazil, March 13, on foliage.

Differs from *L. tenera* by h silvery-white, pfrl with faint golden tinge, frl & plp honey-yellow, thv obscure, pollen of msc faintly brassy, sc honey-yellowish like ab but thinly pol, ab with rather broken blackish mv & irregular dusky hind 1/2 of 3sg; t dusky; ♀ hs curved & nearly 2x hh, plp nearly length of an, weak minute convergent aps, no ds; t not long, mmtt eq fjs.

Leskiopalpus flavescens n.sp.-B, 8 1/2 mm.; wl, 8 mm. 1 ♂, Itaquaquecetuba, S. P., Brazil, Sept. 12, on foliage.

Fulvous; fp dull silvery-whitish; pfel, pfrl, ch, occ & plr pale golden pol; plp & an yellowish, 3an brownish except base; frl satiny-fulvous, msc & sc elightly deeper golden than h, 4 dark brown thv; ab with rufous tinge especially on last 2 sgs, brown mv, 4sg pale golden pol; 1 yellowish, t dark; w nearly clear, yellowish along wv; sq pale watery-yellowish. Frp subarc, rather over fcp; ♂

vrw over $1/5$ hw, prcl ocs length of frs; pfcl not narrowed below, pfcw nearly $1/2$ cw; cs present; R5 brst $1/3$ w to R6.

Leskiopsis brasiliensis n.sp.—B, 7 mm.; wl, 6 mm. 1 ♀, Itaquaquetuba, S. P., Brazil, Nov. 6, on fls of *Cordia curassavica*.

H silvery-whitish, pfcl & uoo faintly brassy; frl, an & plp light fulvous, 3an dusky on outside & upper tip; plr silvery, msc & sc tawny-silvery, disk more rusty; 4 blackish thv, iv almost linelike, ov not very wide; ab rusty-fulvous, last 3 sgs tawny-silvery on basal $1/2$; 1 fulvous, t, tb & tips of f brown; w light smoky-yellowish along wv; sq sordid-whitish, edges tawny.

Diaphoropeza mayensis n.sp.—Bl, $4 \frac{2}{3}$ mm.; wl, 4 mm. 1 ♂, Shanao, Río Mayo, Perú, Nov. 7, on foliage.

Blackish; h silvery, frl brown; 2an fulvous, 1an brown, 3an blackish with hoary bloom; ar brownish, pale on middle; plp pale fulvous; th silvery, 4 black thv, iv rather linelike; ab shining, basal $1/2$ last 3 sgs thinly silvery, extreme bases of isgs white widening on sides & in side view; 1 black, w clear, sq watery-whitish. ♂ cls short.

Iteuthelaira chaetosa n.sp.—Bl, $10 \frac{1}{2}$ mm.; wl, 8 mm. 1 ♀, Itaquaquetuba, S. P., Brazil March 13, on foliage.

Differs from *I. intermedia* by 4sg silvery-white on about basal $1/2$; fr at ba fully $1/3$ hw, upper fc well over $1/3$ hw, ch nearly $1/4$ el, 3 pi, prsc & psc equal length, R1 terminating but little beyond R6, 1sg with 2 long strong erect mm & a shorter erect mm between, 2 short erect brs between mm of 2sg, 1 erect short mm behind mr of 3sg, many long strong erect d on 4sg.

This species marks a very distinct group in the genus.

Pelecotheca paulensis n.sp.—Bl, $9 \frac{1}{2}$ mm.; wl, 8 mm. 1 ♂, Itaquaquetuba, S. P., Brazil, August 27, on foliage.

Differs from *P. panamensis* by an & l wholly black, plp pale yellowish or straw-colored, h silvery-white, po-

llen of last 3 sgs approximating hind margins on sides, w clear.

Alophorella brasiliiana n.sp.-Bl, 5 mm.; wl, 4 1/2 mm. 1 ♂, Itaquaquecetuba, S. P., Brazil, June 3, on fls of *Baccharis genistelloides*.

H silvery, fp more leaden, pfrl & upper pfcl brassy-satiny pol; frl & an blackish. plp pale fulvous-yellowish; plr & humeri thinly silvery, msc & sc quite blackish; ab same brassy-satiny pol as fr, leaving brown mv; 1 dark brownish, w smoky except tip & inner border, sq deeply smoky.

Gymnoclytia paulista n.sp.-Bl, 5 mm.; wl, 4 1/2 mm. 2 ♂ & 1 ♀, Itaquaquecetuba, S. P., Brazil, Sept. 7-30, & Riberão Preto, S. P., May 19, all on foliage.

Differs from *G. occidua* by ♀ vrw 1/4 hw, fr widening to 1/3 hw at ba; ♂ vrw little over 1/5 hw, fr eql on hind 1/2 & then widening to 1/3 hw at ba; ch scarcely 1/4 el, 1 st & bunch of equal hairs in front of same, 5R pet, ♂ cls little over ltj; ♂ h bright golden, occ & ocar of ch silvery; plr silvery, stplr & mplr faintly golden; msc golden, more deeply shaded on disk, 4 brownish thv, iv narrow before ts & swollen behind but stopping on front 1/3 of psc, ov spotlike with forward portion approximated to ts & obsolete anteriorly; sc very pale golden; ♂ ♀ ab & ♀ th like *occidua* but ♀ pfrl & pfcl light golden including all of ch except ocar.

Hyalomyodes brasiliensis n.sp.—Bl, 3 1/2 to 4 1/2 mm.; wl, 3 to 4 mm. 4 ♂ & 1 ♀, Itaquaquecetuba, S. P., Brazil, Nov. 20 to June 23, on fls of *Baccharis genistelloides* & *Sapium biglandulosum*.

Fr wider in ♀, frlw at narrowest 3x pfrw at same point; ♂ frlw little over pfrw; ♂ epw much greater than pfew plus felw at vl, ♀ distinctly greater than same but less than ♂; ar thk not over 1/3w; h silvery, frl & an blackish, plp fulvous; plr silvery, mplr slightly brassy; msc pale brassy pol, disk from front edge prsc to middle psc showing dark brown square 1/2 incised on ts & with hind margin more or less arc inward, sc same dark brown; 1sg brown, fasciae of isgs pale golden, 4sg brassy-golden;

l blackish, w faintly infusate costobasally, sq pearly-smoky. Pollen of ♀ silvery-white on sides ab.

Eutrichopoda abdominalis n.sp.-Bl, 6 1/2 to 7 mm.; wl, 6 1/2 to 7 mm. 4 ♂ & 2 ♀, Itaquaquecetuba, S. P., Brazil, & Moyobamba, Perú, Sept. 13 to June 3, on fls of *Baccharis genistelloides* & on foliage.

Differs from *E. niyra* by sq deep orange-yellow except the white base covered by sql, latter white on outside & blackish on inside; a thinly silvery-white pol arc fascia extending from wb to wb around hind margin of psc; 4sg ♀ faintly hoary-dusted, humeri ♀ golden on hind 1/2; cx, plr & posec thinly silvery-white, cx rufous, mf & hf rufous on base. The ♂ differs by ab same orange-yellow as sq, tip black including triangle of 3sg & portions behind, gold of pfri extending on pfel, humeri wholly blackish, 2an with base 3an more or less tinged rufous. Plp are fulvous.

Xanthomelanodes brasiliensis n.sp.-Bl, 5 3/4 to 7 mm.; wl, 4 3/4 to 5 3/4 mm. 5 ♂ & 3 ♀, Itaquaquecetuba, S. P., Brazil, Dec. 6 to June 10, on on fls of *Sapium biglandulosum* & *Baccharis genistelloides*, & on foliage.

H deep golden ♂, more silvery ♀ especially fc; fri & hind 1/3 to 1/2 pfri deep velvety-black, an nearly as black, plp fulvous; stplr mostly silvery, at times slightly golden, mplr, humeri, nplr & adjacent edges of prsc with narrow margin on ts golden, the golden hind margin sending forward prongs between the subconfluent 4 black thv of prsc; psc & sc black, former with gold or silver lateral spot & hind margin or triangle, all at times confluent on sides & hind border of psc; ab yellow on sides & vn of 1st 2 sgs more or less, incisures of ab very narrowly silvery; l blackish, hf broadly yellow on base, at times mf also, cx more rufous; w black, pale on irregular inner 1/2 ♂ but black filling out 5R, often wholly black ♀; sq whitish, at times tinged with smoky-yellowish, usually narrow edges yellowish or smoky. P fully hh, v dec, ar thk nearly 1/2w, 1 mm. on all 5 sgs.

Eucelatoria montana n.sp.-Bl, 6 1/2 mm.; wl, 5 mm.

1 ♀, Río Ushpayacu, Perú, Sept., on sweaty packs (Dr. Harvey Bassler).

Blackish, pollen with distinct light golden tinge especially on pfrl, humeri and 4sg; frl and an dark brown, plp fulvous; 4 black thv, iv a little narrower; mv and 2 brownish-black triangles on isgs; 1 blackish-brown. w clear, sq tawny.

Italydella chachapoyana n.sp.-Bl, 6 to 7 mm.; wl, 5 1/2 to 6 1/2 mm. 2 ♂, Chachapoyas, Perú, 8100 ft., Nov. 24, on foliage.

Black; h silvery, a faint smoky or brassy-tawny tinge on pfrl, pfel, ch and uoo; frl velvety brownish-black, an blackish, plp pale fulvous; plr silvery, msc tawny-silvery with 2 wide black thv stopping short of sc, latter black, umpp pol; ab smoky-silvery to tawny-silvery pol, wide mv, broad hind margins of last 3 sgs and most of tergum of 1sg deep brownish-black; l black; w faintly smoky, more so on costa; sq watery-yellowish to smoky-yellowish. Fel cil 1/2w more or less.

This species marks a subgenus of *Italydella*.

Ptilolydella aberrans n.sp.-Bl, 5 2/3 mm.; wl, 4 2/3 mm. 1 ♂, Itaquaquecetuba, S. P., Brazil, May 17, on foliage.

Black; h silvery-whitish, frl and an blackish, plp pale fulvous; th dull silvery, faint brassy tinge to pollen of plr and humeri; 4 black thv, iv narrow; sc very thinly silvery bases of last 3 sgs silvery with faint brassy tinge; 1 black, w faintly infusate, sq glassy and faintly smoky-yellowish. Differs from *P. aristalis* by the structural characters of no md on isgs and frlw 1 1/3x pfrw.

Jicaltepecia itaquaquecetubae n.sp.-Bl, 5 1/2 to 6 1/2 mm.; wl, 4 1/2 to 5 1/2 mm. 6 ♂ and 1 ♀, Itaquaquecetuba, S. P., Brazil, ♀ Aug. 21, ♂ Feb. 8 to March 13, all on foliage.

H pale golden pol ♀, a little deeper golden ♂; frl and an blackish; plp light yellow, brownish at base; th pale brassy; 4 black thv, iv narrower than ov and approximated to latter, subcoalescent in ♂; ab black, more or less rufous on sides of 2sg ♂, last 3 sgs silvery on base

thinning posteriorly, less broadly pol in ♂; 1 black; w ♀ nearly clear, ♂ well infusate on costal $1/2$ and filling 3M; sq yellowish-smoky ♂, more whitish ♀ save narrow border. Differs structurally from *J. rafaella* by ♀ vrw $2/7$ hw, ♂ $1/5$ hw, fc in middle $1/2$ hw, vrs 1 ♂ ♀ not dec, no pfro ♂, 3 rfro ♂, 5R narrowly open or nearly closed just before wt; ♂ ♀ with mr on 1st 2 sgs but only 1 mm. erect, mr of 1sg broken. (♂ *rafaella* unknown).

Plagiotachina orientalis n.sp.-Bl, 6 mm.; wl, $5 \frac{3}{4}$ mm. 1 ♀, Yarinacocha, Río Ucayalí, Perú, Sep. 17, in canoe.

H silvery-white, pfrl golden, uoo slightly brassy; frl dark brown, an dark brownish, 2an and plp very pale fulvous; th slightly brassy, 4 equally wide and regular blackish thv; sc blackish on base in certain lights; ab pol except 1sg, slightly brassy on tergum, mv and 2 triangles of isgs dark brown, median triangle of 4sg dark brown; 1 dark brown, w clear, sq whitish. Frlw nearly eq pfrw; R6 considerably beyond tip of S2.

Plagiotachina heliconiinarum n.sp.-Bl, $5 \frac{3}{4}$ mm.; wl, $4 \frac{1}{2}$ mm. 1 ♀, Santa Eulalia, Perú, May, reared from black scolus-spined caterpillars of Heliconiinae near *Agraulis* (host det. Dr. H. G. Dyar).

Differs from *P. orientalis* by no distinct brassy tinge to pollen of th, pollen of ab only faintly brassy; frlw little over $1/2$ pfrw, R6 nearly opposite tip of S2. Differs from *P. peruviana* by smaller size, narrower frl and tip of ab not rufous. This species belongs to the arid fauna but is included here for purpose of comparison with preceding.

Chrysophryna andinensis n.sp.-Bl, 7 to $7 \frac{1}{4}$ mm.; wl, 6 to $6 \frac{1}{4}$ mm. 1 ♂ and 1 ♀, near Tabalosas, Perú, Nov. 8, on rocks at stream crossing in sierras.

Greenish-gold; h deep golden; locc, loo, ch, fp and fcl more silvery, crests of fcl and lower pfcl tinged pale gold; frl blackish-brown, an blackish, plp fulvous; plr dull silvery, upper stplr faintly golden; upper-posterior mplr, whole msc, sc and umpp deep gold; 4 dark thv, iv narrow, ov in widely interrupted narrow triangles; ab deep green-

gold, 1sg, wide hind margins of isgs and tip of 4sg blackish; pollen of vn silvery; l black, w faintly infusate costobasally, sq smoky-yellowish edged with pale yellow. Differs from *C. egeusis* structurally by hw $1\frac{1}{3}x$ hh, ep distinctly warped, v a little above oml, vx nearly eq anx, latter almost $\frac{2}{3}$ hh, e rather thickly pilose, ♂ 3an little over $5x$ 2an, ♂ vrw not $\frac{1}{3}$ hw, fc in middle $\frac{3}{5}$ hw, no ovs ♂, frlw considerably less than pfrw, pfcl eql and rather wider than fcl, ch $\frac{1}{4}$ el, ♂ cls long.

Siphonopsis brasiliensis n.sp.-Bl, $3\frac{1}{2}$ to $3\frac{3}{3}$ mm.; wl, $2\frac{1}{2}$ to $2\frac{3}{4}$ mm. 1 male and 1 female, Itaquaquecetuba, S. P., Brazil, May 29 and Sept. 13, on fls of *Baccharis genistelloides* and on foliage.

H silvery; frl, an and plp fulvous-yellowish, 3an and ar blackish; pfrl and th faintly brassy pol, plr more silvery; thv obsolete; male ab fulvous, most of last 2 sgs and 3 triangles of 2sg brownish; most of last 3 sgs female brownish; last 3 sgs from side view narrowly silvery-white on bases, the pollen spread over isgs by direct view; male 1 mostly brown; female 1 fulvous, t and tips of mf and hf brownish; w nearly clear, faintly yellowish on costa beyond stigma; sq whitish.

Schizotachina peruviana n.sp.-Bl, $2\frac{3}{4}$ mm.; wl, $2\frac{1}{2}$ mm. 1 male, Chipeza, Río Huallaga, Perú, July 9, on clothing.

Black with thin silvery-gray bloom on h and th, frl brownish, plp pale fulvous, 3 an slightly frosted; ab blackish-brown with faint cupreous tinge, last 3 sgs with 4 silvery-white spots on bases, the lateral ones elongated and extending on vn; 1 blackish, w clear, sq sordid-glassy.

Actinoprosopa maris n.sp.-Bl, 7 mm.; wl, $5\frac{1}{2}$ mm. 1 male, Itaquaquecetuba, S. P., Brazil, August 25, on foliage.

Differs from *A. facialis* by pfcl and pfrl golden, pollen of th faintly golden and that of ab more silvery; h not so conspicuously widened; male cls elongate, longer than ltj.

Argyreomyia itaquaquecetubae n.sp.-Bl, 6 1/2 to 7 3/4 mm; wl, 6 to 7 1/2 mm. 9 males, August, 15 to 17; 2 females, Sept. 1 to 15, Itaquaquecetuba, S. P. Brazil, all on foliage.

H and th male densely silvery-white, female very faintly brassy, some rusty on disk of msc; frl and an female blackish, female an with silvery bloom; plp fulvous, darker basally; last 3 sgs female silvery on basal 1/2, isgs male faintly brassy pol on irregular basal 1/2 more or less and 4 sg on over basal 1/2; l blakish, w clar, sq whitish with yellowish border. Fr female eq ew, male 2/7 hw; fc male widening to quite 1/2 hw below, female fc scarcely wider than fr at ba; frl female eql, frlw 2/3 pfrw; pfrl male sep by 1/5 to 1/3 their width; minute long pr of hairlike ocs male, strong female; 3 pra; R5 brst 1/2w to all way to R6.

Argyrophylax purpurescens n.sp.-Bl, mm; wl, mm. 1 male, Pucalpa, Rio Ucayali, Peru, Sept. 25, on foliage.

H silver-white, changing to dusky with shift of view; frl, an and plp blakish; occ dusky; th not pol, msc and sc shining metallic dar purplish, vr sharing same color; ab purplish-brown, the yellowish-silvery pollen occupying basal 1/2 of 2sg, narrow base of 3sg and still narrower base of 4sg; only faintest suggestion of reddish on sides of isgs; l blakish-brown, w nearly clear, sq pale yellowish-smoky.

Celatoria brasiliensis n.sp.—Bl, 4 1/4 mm; wl, 3 1/2 mm; 1 female, Viçosa, Minas Geraes, Brazil, April 22, on foliage of sweet potato.

H silvery, frl and an black, plp very pale fulvous; th thinly silvery all over seen from in front, but seen from behind only the sides and irregular hind margin of psc and sc silvery; thv represented only by narrow iv and wide confluent blotch outside before ts; ab shining black with faint bronze reflection, last 3 sgs silvery on bases; l black, w clear, sq glassy-whitish faintly stained with rusty-yellowish. Differs anatomically from *C. crawii* by plp only slightly thk at tip, 2ar fully 2x as long as wide, frlw a little over pfrw, ch 1/6 el, 3 pra and pa, 3 ls, S2 terminating distinctly before 6P, no md on any sgs but only subappressed bristly hairs.

Mesochaeta meridionalis n. sp. Bl, 4 1/2 mm; wl, 4 mm. 1 female, Itaquaquetuba, S. P., Brazil, August 27, on foliage.

Black; h dull silvery, pfrl dull golden, frl brown, an and plp blackish; th very thinly silvery, 5 black thv on prsc, mv and iv narrow; last 3 sgs very thinly silvery-white on bases especially from side view, 4sg less so than isgs; l black, w clear, sq faintly smoky-yellowish. Cs distinct, R6 nearly opposite tip of S2, M1 bent in before tip, M3 distinctly nearer cb.

Mesochaeta paulista n.sp.-Bl, 4 mm; wl, 3 1/2 mm. 1 female, Itaquaquetuba, S. P., Brazil, Feb. 13, on fls of *Baccharis*.

Differs from *M. meridionalis* by pfrl faintly brassy, 4 black thv, w faintly smoky on costa, sq nearly white, cs scarcely distinguishable, R6 considerably beyond tip of S2, M1 straight, M3 in middle.

Paralispe palpalis n.sp.-Bl, 7 1/2 mm; wl, 6 mm. 1 female, Itaquaquetuba, S. P., Brazil, March 17, on foliage.

H silvery, changing to dark with varying light; frl and an black; plp light rufous on swollen portion, blackish on stalklike bases; th very thinly silvery over shining black, with faint bluish luster; 4 faint dark thv, iv line-like; ab shining black, i sgs very narrowly silvery pol on bases, the pollen very thinly and almost imperceptibly extended posteriolly; l black, w smoky-yellow on costa and along wv, sq smoky-yellow. Differs structurally from *P. brasiliana* by frp faintly arc and little over fcp, fcl cil about 1/2w, female plp swollen subglobose at tip, ar thk 1/3w and tapered, e thinly but conspicuously pilose, frlw rather over pfrw, 5R very narrowly open or nearly closed a little before wt, mtt about eq fjs.

Calocarcelia orellana n.sp.-Bl, 9 mm.; wl, 7 mm. 1 male, Orellana, Río Ucayali, Perú, Oct. 22, on foliage.

H silvery-white, occ more leaden, frl blackish-brown, an brownish, plp pale fulvous; plr and hind surface of ff silvery white, msc thinly silvery; 5 blackish thv, iv line-like, ov wider and broken, mv like ov behind ts and confined to psc; sc blackish, broadly testaceous on tip; ab

deep rich brown, vn silvery from middle of 1sg to base of 4sg, tergum pale gold pol on little over basal $1/2$ af last 3 sgs, pol fascia of 2sg widening laterally; 1 dark brown, w yellowish-smoky along wv, sq whitish and stained sordid. Differs structurally from *U. fasciata* by vrw little over $1/5$ hw, fc $5/13$ hw, 3an 4x 2an, 3 frs below ba, ab not so widened.

Anazygosturmia distincta n.sp.-Bl, $7\frac{3}{4}$ mm.; wl, $6\frac{1}{4}$ mm. 1 female, Itaquaquetuba, S. P., Brazil, Oct. 16, on foliage.

H silvery-white pol, pfrl and ch light golden, frl dark brown; an brownish, 2an and base 3an tinged reddish; plp fulvous, dusky on base; th dull yellowish silvery, 4 dark subequal thv; sc brownish-fulvous except base, thinly brassy; ab black, last 3 sgs changeably pol except hind borders, the pollen with a brassy tinge; l black; w almost clear, very faintly yellowish-tinged costally; sq nearly white. Differs structurally from *A. analis* by frp little over fcp, c only slightly sunken, fcl flattened almost to cpl, female vrw fully $1/3$ hw, 2 frs below ba, 3 rfro female and the 2 hind ones nearly abreast, frl much narrowed behind, no ocs differentiable from the hairs, 4 ls but the extra one short, cb not $1/3$ ww from hwm.

Gymnosturmia andina n.sp.-Bl, $10\frac{1}{2}$ mm.; wl, $9\frac{1}{2}$ mm. 1 female, Calavera Tambo on the Moyobamba trail, Perú, Nov. 9, on foliage.

Blackish; h silvery whitish; faint brassy-smoky tinge on ch, inside edge of pfcl and pfrl; frl and an blackish, plp fulvous; th silvery-whitish, lateral edges and plp a little dingy; sc faintly testaceous on tip; last 3 sgs silvery-whitish on basal $1/2$, the pollen changeable; l blackish; w infusate on wb and dilutely along main wv; sq tawny-whitish, edges stained yellowish especially on outer side.

Parachetolyga elegans n.sp.-Bl, $7\frac{1}{2}$ to $11\frac{1}{2}$ mm: wl, $6\frac{1}{2}$ to $8\frac{1}{2}$ mm. 7 male and 1 female, Itaquaquetuba, S. P., Brazil, female August 22, male Oct. 29 to Feb. 14, all on foliage. The smallest measurement is of the female.

This may well be called the gold-and-silver fly.

Looked in the face, the male is truly a gorgeous insect. The flattened portion of the completely approximated pfrl is burnished silver white; the rest of and all of fc, including anterior part of ch, are vivid gold-yellow. The female has the same gold fc and anterior fr, but the flattened pfrl are thinly silvery over black and bear the 2 or 3 frs behind ba, the 2 pfro and 3 rfro, while the eql frl nearly eq pfrw. The male pfrl bear 1 pfro and 1 rfro, while the frl are completely invisible. Ocs present though weak, sometimes absent in male; 2 vrs male female; vrw male less than $1/3$ hw and fr eql, female vrw over $1/3$ hw and fr at ba slightly wider, fc male female $3/7$ hw in middle; ch $1/6$ to $1/7$ el; 1 ds; no mm on 1st 2 sgs male, 1 long strong erect mm on 2sg female; htb female pc, male rather thinly short-cil and with 1 longer br. The 4 black thv are equal width, the iv and ov of same side closely approximated; ocb brassy to golden male, nearly white female; banjs at most with only suggestion of reddish; sc testaceous to blackish; ab wholly thinly silvery pol over black, pollen intensified or fading with change of light, hind $1/2$ of 4sg reddish-fulvous. Otherwise as in *P. metopia*.

Bischof's specimen was a male has 3 or 4 frs below ba and 1 at ba, being 4 or 5 in all. The w especially in male are very short and narrow, bladelike and with the costal outline dished.

Patelloapsis concolor n.sp.-Bl, $9\frac{1}{2}$ mm.; wl, $8\frac{1}{2}$ mm. 1 female, Itaquaquetuba, S. P., Brazil, Sept. 13, on foliage.

Differs from *P. similis* by frs doubled anteriorly, ovrs stronger, only 1 ds, 1 very weak mm on isg, 1 md on 3sg, 4sg concolorous with rest of ab.

Stenosturmia peruana n.sp.-Bl, $8\frac{1}{2}$ mm.; wl, $6\frac{1}{2}$ mm. 1 female, near Tabalosas, Perú, 3000 ft., Nov. 8, on rocks at stream crossing in sierras.

Blackish; h silvery; uoo, pfrl, fp, fcl and ch faintly golden; frl and an dark brown, plp deep fulvous; plp silvery, msc and sc faintly brassy, usual 5 black thv, sc blackish on base and testaceous on tip; ab slightly reddish on sides, basal $1/2$ of 4sg and irregular bases of

isgs pale brassy pol; l black, w nearly clear, sq well tinged smoky-yellowish.

Thysanomyia paulista n.sp.-Bl, 9 mm.; wl, 7 mm. 1 male, São Paulo, Brazil, May, reared by Conde Amadeo A. Barbiellini from caterpillar of *Papilio idaeus*.

Blackish; h pale golden, occ grayish, loo silvery, frl and an dark brown, 2an and plp fulvous; th pol with faint brassy tinge especially above. sc testaceous beneath rusty pollen, usual 5 blackish thv, iv nearly as wide as ov; ab obscurely reddish on sides, last 3 sgs very pale golden pol on irregular basal 1/2 thinning on isgs posteriorly; l black, w nearly clear, sq smoky-yellow.

Thysanomyia peruana n.sp.-Bl, 7 mm.; wl, 6 1/2 mm. 1 female, Río Charape, Perú, 3500 ft., Sept. 12, on foliage.

H light golden pol, occ silvery-grayish, frl and an blackish-brown, plp fulvous; th pale golden, stplr silvery, 5 subequally heavy brownish-black thv, mv confined to psc; ab dark brown, 4sg light gold pol, isgs pol but showing mv and 2 heavy triangles of brown according to shift of view; pollen of vn of isgs silvery; l dark brown, w nearly clear, sq smoky-yellowish.

Chaetophlepsis ucayali n.sp.-Bl, 5 mm.; wl, 4 mm. 1 female, Yarinacocha, Río Ucayalí, Perú, Sept. 16, on foliage in cotton field.

H silvery; fr, pfcl, ch and oo faintly brassy, frl smooth pale golden; banjs reddish including base 3an, plp pale rufous; plr silvery, pollen of msc and sc slightly golden; ab submetallic dark brown, faintly cupreous, bases of last 3 sgs thinly silvery, pollen of isgs spreading by side view; l dark brown, w nearly clear, sq glassy, whitish.

Vibrissovoris aurea n.sp.-Bl, 8 to 10 3/4 mm.; wl, 6 1/2 to 8 1/2 mm. 15 male, Itaquaquecetuba, S. P., Brazil, Nov. 19 to Jan. 10, on fls *Baccharis genistelloides* and on foliage.

Fp and fcl silvery; pfrl, pfcl and ch gold; frl dark brown, ln deep brick-red; an blackish, bjs faintly tinged reddish; plp fulvous, rufous on tips; th brassy-silvery pol,

4 heavy subequal black thv; sc brownish-red, thinly pol; ab blackish, 4sg and side of isgs brownish-rufous to reddish, isgs thinly silvery pol, 4sg pale brassy pol on basal 1/2; l blackish, tb reddish; w clear, sq white. Differs structurally from *V. petiolata* by 2ar nearly 1/2 length of 3ar, 5 frs of innar fr below ba, woak short dec aps, M3 a little nearer cb, htb irregularly pc.

Voria brasiliiana n.sp.-Bl, 6 to 7 1/2 mm.; wl, 5 to 6 1/2 mm. Many males and females, Itaquaquetuba, S. P., Brazil, July to Sept., on foliage; in copula Sept 12.

Black; h brassy-silvery, fp silvery-white; frl brown but pol like rest of fr, ln also pol; an black, 2an subrufous; plp blackish, the enlarged tips fulvous; th thinly silvery. white, 4 black thv, iv a little narrower, a mv dimly seen on psc; all of isgs and basal 1/2 of 4sg thinly silvery white pol, th and ab shining through pollen; l black, w nearly clear, sq whitish.

Exoerrestia lluyi n.sp.-Bl, 9 1/2 mm.; wl, 9 1/2 mm. 1 male, Lluy, Perú, on Balsas to Chachapoyas trail, 10,500 ft., Nov. 28, on fls. *Baccharis*.

Blackish; h yellowish-silvery pol on fc, ch, locc and more than anterior 1/2 of fr, succeeded by blackish with shift of light, pollen spots shifting, appearing or disappearing with change of view; seen from before, fp, fel, middle of pfel and spot on middle of pfrl are pol; 2an fulvorufus, plp fulvous; only faint coat of same yellowish-silvery pollen on th and ab, becoming more distinct viewed from the side or behind; 4 heavy black thv faintly indicated, mostly on prsc; hy deep fulvous; last 3 sgs pol on sides and vn, spreading somewhat on tergum in oblique view; l blackish, w and sq smoky-blackish.

Microgymnomma paulensis n.sp.-Bl, 7 mm.; wl, 6 mm. 1 male, Itaquaquetuba, S. P., Brazil, Sept. 6, on foliage.

Differs from *M. orbitalis* by 3an 1 1/2x 2an, M2 extended beyond cb less than 1/2w to hwm, w not so broad in proportion to length, 5R widely open; fc and ch pale golden, banjs fulvous, 3an and frl brown; pfrl, th

and sc brassy pol; ab shining bluish-black, faintly silvery pol, the pollen showing more at incisures; l black w nearly clear except faint infuscation costally.

This species resembles *Itacuphocera ocellaris* TT and may be considered as belonging to the same coloration group.

Argentoepalpus imitator n.sp.-Bl, 12 mm.; wl, 11 mm. 1 female, Itaquaquecetuba, S. P. Brazil, Sept. 5, on fls *Baccharis*.

H pale brassy-silvery, ocb and pile of pfcl pale brassy; pfcl showing blackish through the pollen, frl light honey-fulvous, banjs fulvous, 3an and ar blackish; th thinly gray-silvery pol, 4 nearly equal narrow dusky thv; sc and ab pale honey yellowish; 4sg, lateral hind spot of 3sg and median hind spot of isgs blackish to brown, 4sg widely silvery-yellow, pol on base; whole vn of 1st sgs and all of l light honey-yellow, w and sq uniformly infusate.

Belongs to color group of *Trichodejeania brasiliensis* and *Adejeania brasiliensis*, occurring in company with both.

Argentoepalpus ochraceus n.sp.-Bl, 11 mm.; wl, 10 1/2 mm. 1 female, Itaquaquecetuba, S. P. Brazil, March 17, on foliage.

Col samo as *Ochroepalpus ochraceus* except ocb and pollen of th pale golden, t bright honey-yellow, w a little more deeply infusate; 3an 1 1/2x 2an, 2 frs below ba. Belongs to same color group with *O. ochraceus*.

Eublepharipeza ochracea n.sp.-Bl, 9 to 11 mm.; wl, 8 to 9 1/2 mm. 8 males and 11 females, Itaquaquecetuba, S. P., Brazil, Jan 9-11, on fls *Baccharis* spp.

Ch, plp, 2an, l, ab, sc and th ferruginous-ochraceous; black quadrangle on disk of prsc lapping over in psc, thv faint except that the linelike iv show anteriorly in the quadrangle; frl and 3an black, pfcl black in ground color and thinly silvery pol, fc ochreous in ground color and thinly silvery extending on ch; w faintly infusate, sq ocher-buff; 1 rfro and signs of 2d, 2 pa, 5R ending

little more than mw before wt, sq bearing a very little buff woolly pile at sqj.

This species scarcely differs anatomically from *E. hystrix* TT, yet strongly simulates *Ochroepalpus ochraceus* TT in color. Belongs to same color group with latter.

Jurinella ferruginea n.sp.-Bl, 9 mm.; wl, 8 mm. 1 female, Tremembé de Cantareira, S. P., Brazil, June 10, on fls of a tree.

Fulvorufous; h and th pale golden pol, fp silvery, frl brown, ar and most of 3an blackish, plp and rest of an pale fulvous-yellow; 4 equally heavy brown thv; ab shining ferruginous, without pollen; l fulvous, t faintly tinged brownish; w light smoky, pale yellowish on bases; sq smoky-yellowish.

Trichodejeania brasiliensis n.sp.-Bl, 12 to 14 mm.; wl, 11 to 11 1/2 mm. 6 males and 2 females, Itaquaquecetuba, S. P., Brazil, August 15 to April 25, on fls of Mikania, Baccharis and Genus of Lythraceae, and on foliage.

H and plp very pale yellowish-silvery; plp yellow, fulvous toward tips; frl fulvous, and light brown, pfrl and msc olive, sc yellowish-testaceous; ab light yellow, 4sg black; l yellow, f black on basal 1/2 more or less; w and sq infusate.

This is the dominant species of its color group in the districts of the Río Tieté, S. P., Brazil.

