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ELEVEN NEW HELINA-SPECIES COLLECTED ON WET STONES ALONG MOUNTAIN STREAMS IN PAPUA NEW GUINEA (DIPTERA: MUSCIDAE)*

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Abstract

Eleven new species belonging to the genus *Helina* R.-D. from Papua New Guinea are described and figured. They are *H. fluocharis*, *H. papuana*, *H. allisoni*, *H. hirashimai*, *H. wauensis*, *H. fuscifacies*, *H. nigricornis*, *H. nais*, *H. grandicornis*, *H. mendiensis* and *H. nana*. All of them are found on wet stones or sand along mountain streams in the forests.

Flies belonging to the genus *Helina* R.-D. are characterized by having no posterodorsal bristles on the hind tibia, a developed prealar bristle (rarely absent), and no setae on the basal node of r_1 and r_{4+5} (rarely present on the dorsal and ventral surfaces or ventral surface). They are commonly grayish or dark colored species usually found on grasses, leaves or tree trunks in the forests.

Vockeroth (1972) gave a key to the subfamilies of Muscidae of New Guinea and Oceania after examination of the large collection preserved in the Bishop Museum. He followed Hennig's subfamily definition based on the structure of the ovipositor. New Guinean *Helina* falls into two couplets in his key. One is characterized by having one or more distinct setae on the node of *Rs* and also often above (couplet 14 (13)) and the other has no setae on the node of *Rs* (couplet 15 (14)). The *Helina* species described in this paper have much longer prealar bristle than 2nd notopleural bristle and the body is yellow or orange in color. They are found on wet stones or sand along mountain streams in the forests. This is the first record of *Helina* from such a habitat.

The eleven species described in this paper are unique in their external characters and also habitat.

Holotypes of the new species described in this paper are preserved in the

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Department of Entomology, B. P. Bishop Museum, Honolulu, Hawaii and paratypes are deposited in Entomology Section, Department of Primary Industry, Konedobu, Papua New Guinea, Entomological Laboratory, Kyushu University, Fukuoka and Department of Zoology, National Science Museum, Tokyo.

Key to the species (prealar bristle much longer than 2nd notopleural bristle) described in this paper

Males

1.	Ventral surface of node of r_1 and r_{4+5} hairy (2)
_	Vein r_1 and r_{4+5} bare dorsally and ventrally
2.	Eyes densely covered with long hairs; frons open, about 0.10 to 0.12 of head
	width
-	Eyes sparsely covered with microscopic hairs
3.	Sternopleuron, mesopleuron and pteropleuron with dark spots which occupy
	more than one-third of their area respectively
-	Sternopleuron, mesopleuron and pteropleuron usually orange in color, rarely
	faint brownish spots present
4.	Frons open, about 0.22 of head width; lateral part of parafrontals parallel
_	Frons narrow, at least less than 0. 10 of head width
5.	Frons a little wider than front ocellus; anterior half of ori long and cruciate,
	posterior half short and reclinate ;palpi black H. allisoni, n. sp.
-	Frons about 0.06 of head width; anterior half of ori a little longer than pos-
	terior ones; antennae yellow or orange
6.	Frons widely open, wider than width of 3rd antennal segment(8)
-	Frons narrow, equal to or a little wider than width of front ocellus(7)
7.	Anterior half of ori long and cruciate; posterior half short and reclinate; t_1
	with p-seta H. mendiensis, n. sp.
-	Anterior half of ori not distinctly longer than posterior half; t_1 without p-seta
	Distinct ors absent; t_1 without anterodorsal bristles
	Distinct <i>ori</i> present; t_1 with anterodorsal bristle
	Face reddish brown
	Face black (10)
10.	Antennae dark brown to reddish brown; scutum with 3 dark longitudinal
	stripes
-	Antennae black; scutum without distinct longitudinal stripes H. nigricornis, n. sp.

Helina fluocharis, new species

Body length of the male and female 5.0-7.0 mm.

Male: Head: Frons slightly open, narrowest part about 0.10 of head width; eyes densely covered with hairs; frontal stripe dark brown, upper half darker than lower half; parafrontals dark brown; parafacials reddish brown with silvery pollen; ori hair-like, extending until frontal lunula; ors absent; antennae orange, long and extending to mouth edge; length of 3rd antennal segment about 4x that of the 2nd segment; palpi reddish brown. Thorax: Scutum black

with grayish pollen, except lateral part of presutural area; humeral callus, notopleuron and pteropleuron orange; anterior parts of mesopleuron and sternopleuron and hypopleuron black; ac 0+1; dc 2+3; ia 0+1; h 2; ph 1; nt 2; sa 1; pa 1; st 1+2; scut 1 preapical and 2 laterals; notopleuron with several hairs; scutellum black with hairs on lateral and ventral surfaces; prosternum, pteropleuron. hypopleuron, and squamopleuron bare; meso- and metathoracic spiracles orange in color. Wings: Hyaline; r_1 bare; r_{4+5} with 2-4 setae on basal node of ventral surface; m-m bending anteriorly on the middle part; squamae orange; halter orange. Legs: Coxae, trochanters, distal parts of femora and tibiae orange; tarsi black; f_1 with a row of pd and pv; t_1 without p-seta; f_2 with long hair-like bristles on ventral surface; t_2 with 2 p-seta; t_3 with a row of t_1 and t_2 t_3 with 1 t_3 and several t_4 t_4 t_5 t_5 t_6 t_7 t_8 t_8

HOLOTYPE: Male, Baiyer River Sanct., 1,200 m, W. Highland District, 4-8. VIII. 1982, S. Shinonaga.

Paratypes: Same data as holotype, 10 33, 20 99.

Remarks: The present species is closely related to H.papuana in external characters, but differs from it in having dark spots on the sternopleuron, mesopleuron and pteropleuron. The from width is a little narrower than in H.papuana.

Helina papuana, new species

Male: Body length 6.0-7.0 mm. Head: Frons slightly open, narrowest part 0.12 of head width; eyes densely covered with long hairs; frontal stripe black with grayish pollen; parafrontals and parafacials black with grayish pollen; upper part of parafacials reddish, ori situated throughout its length; ors absent; antennae orange, length of 3rd antennal segment about 4x of that of the 2nd; palpi reddish brown. Thorax: Scutum black, lateral part of presutural area and postalar reddish; $ac\ 0+1;2+3;$ dc $2+3;ia\ 0+1;h\ 2;$ $ph\ 1;$ nt 2; sa 2; pa 2; st 1+2; scut 1 preapical and 2 lateral; notopleuron hairy; pra present, much longer than 2nd nt; scutellum black with grayish pollen and hairs on ventral and lateral surfaces; meso- and metathoracic spiracles yellow orange; hypopleuron black. Wings: Hyaline; r_1 bare; r_{4+5} with short setae on basal node of ventral surface; m-m bending anteriorly; squamae orange; halter orange. Legs: Coxae and trochanters orange; femora black with orange apices ; tibiae orange ; tarsi black ; $f_{\scriptscriptstyle 1}$ with a row of long pd and pv ; $t_{\scriptscriptstyle 1}$ without p-seta; f_2 with a row of long pv, hair-like av; f_2 with 2 p-seta; f_3 with a row of long av on entire length; a row of pv on basal half; t_3 with 1 ad, several av. Abdomen: 2nd tergite yellow; basal half of 3rd tergite yellow; 4th and 5th tergites black.

HOLOTYPE: Male, Regina Creek, Wau, 25. XII. 1981, S. Shinonaga:

Paratypes: 1133, 15 \$\$, same data as holotype; 1633, 3089, same locality, 28. XII. 1981, S. Shinonaga; 333, 4\$\$, same locality, 25. VII. 1982, S. Shinonaga; 833, 20\$\$, Bulolo, 8-9. I. 1974, S. Shinonaga; 4\$\$, Wau, 5-17. I. 1974. R. Kano; 1\$, Wau, 30. VIII. 1982, S. Shinonaga.

Helina allisoni, new species

Male: Body length 5.5-6.5 mm. Head: Frons narrow, a little wider than front ocellus; eye sparsely covered with microscopic hairs; frontal stripe dark brown, interrupted on the middle part; parafrontals narrow, dark brown; parafacials reddish brown with grayish pollen; ori long, lower ones cruciate and upper ones short, reclinate; antennae reddish brown, length of 3rd antennal segment about 4x that of the 2nd; arista long plumose; palpi dark brown. Thorax: Scutum black, but lateral part of presutural area reddish; ac 0+1; dc2+3; $ia\ 0+1$; $h\ 2$; $ph\ 1$; $nt\ 2$; pra present, much longer than 2nd nt; $pa\ 2$; sa 2; scut 1 preapical and 2 lateral; st 1+2; notopleuron bare; scutellum black; meso- and metathoracic spiracles yellow orange; sternopleuron, hypopleuron and pteropleuron black. Wings: Hyaline, veins dark brown; r_1 bare; r_{1+5} with 2-3 short setae on basal node of ventral surface ; m-m slightly bending toward base on the middle part; squamae yellowish; halter brown, knob darker. Legs: Black, knee brownish; f_1 with a row of long pd and $pv; t_1$ without p-seta; f_2 with a row of long av; t_2 with 2 p-seta; f_3 with a row of long ad and av, long pv on basal half; t3 with 1 ad, 3-4 av; tarsi black. Abdomen: 2nd tergite and anterior half of 3rd tergite yellow; posterior half of 3rd, 4th and 5th tergites black.

HOLOTYPE: Male, Mendi, Nipa, 2,000 m, 3. II. 1978, R. Kano.

PARATYPES: 10 \$%\$, 7 \$\$\$, same data as holotype; 1 \$%\$, Mt. Kaindi, Wau, 10-13. I. 1974, S. Shinonaga; 1 \$%\$, Wau, 22-31. XII. 1973, H. Shima; 1 \$%\$, Wau, 5-17. I. 1974, S. Shinonaga; 1 \$%\$, Mt. Kaindi, Wau, 4. I. 1982, S. Shinonaga; 1 \$%\$, Wak River, Margarina, 2,100 m, 5. II. 1978, R. Kano.

Remarks: This species is characterized by the following characters: ventral surface of node of Rs hairy; eyes sparsely covered with microscopic hairs; frons contiguous; antennae dark brown; t_1 without p-seta; and notopleuron bare.

Helina hirashimai, new species

Male: Body length 4.5-6.0 mm. *Head:* Frons narrow, narrowest part 0.06 of head width; eyes hairy, sparsely covered with microscopic hairs; frontal stripe black; parafrontals and parafacials black with grayish pollen; *ori* extending on entire length of parafrontals; *ors* absent; antennae orange, length of 3rd antenna1 segment about 3x that of the 2nd; palpi brown, face black;

anterior margin brownish. *Thorax:* Scutum black, slightly covered with grayish pollen; humeral callus, notopleuron and mesopleuron orange; sternopleuron and hypopleuron black; $ac\ 0+1$; $dc\ 2+3$; $ia\ 0+1$; $h\ 2$; $ph\ 1$; $nt\ 2$; sa 2; $pa\ 2$; $scut\ 1$ preapical and 2 lateral; $st\ 1+2$; notopleuron bare; meso- and metathoracic spiracles orange. *Wings:* Hyaline; r_1 bare; r_{4+5} with short setae on ventral surface; m-m slightly bending; squamae orange, marginal cilia concolorous; halter orange. Legs: Coxae and trochanters orange; femora black; tibiae brown; t_1 without p-seta; f_2 with a row of short av and pv; t_2 with 2 p-seta; f_3 with a row of long ad and au, sparse row of pv; t_3 with 1 ad and several av. *Abdomen*: 2nd tergite yellow; anterior half of 3rd tergite yellow and posterior half black; 4th and 5th tergites black.

HOLOTYPE: Male, Regina Creek, Wau, 25. VII. 1982, S. Shinonaga.

Paratypes: 233, Wau, 5-17. I. 1974, R. Kano ;13, Regina Creek, Wau, 28. XII. 1981, S. Shinonaga.

Remarks: The present species is closely related to *H. allisoni* in external features, but differs in having much shorter anterior *ori*.

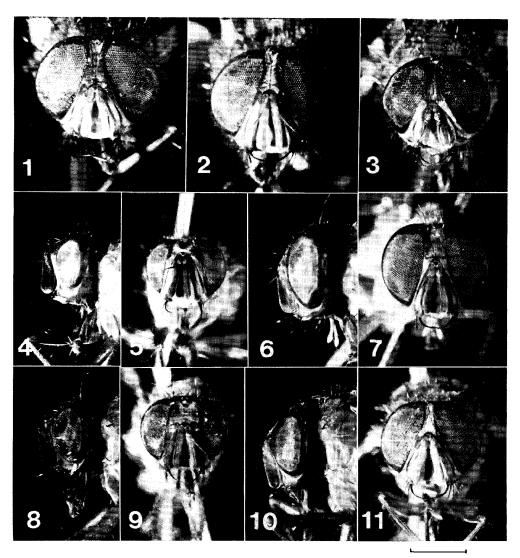
Helina wauensis, new species

Male: Body length about 6.5 mm. Head: Frons widely open, about 0.22 of head width; eyes bare; frontal stripe black, parallel-sided; parafrontals black; parafacials brown with grayish pollen ; ori cruciate ; proclinate ors present; face dark brown with grayish dust; antennae large, brown to dark brown; length of 3rd antennal segment about 5x of that of 2nd segment; Thorax: Scutum black, but anterior and lateral margin reddish brown; pleura orange; ac 0+1; dc 2+3; ia 0+1; h 2; ph 1; nt 2; st 1+2; sa 2; pa 2; scut 1 preapical and 2 lateral; pra present, much longer than 2nd nt; scutellum black, lateral margin reddish brown; meso- and metathoracic spira-Wings: Hyaline; r_1 bare; Rs with several short 'setae on ventral surface; veins dark brown; squamae orange, marginal cilia concolorous; halter yellow. Legs: Coxae, trochanters and femora orange; tibiae and tarsi black; f_1 with a row of pd and $pv; t_1$ with p-seta; f_2 with a short row of av and $al; t_2$ with 2 p-seta; f_3 with a row of ad, several long av on distal 1/3; 2 preapical pd; t3 with 1 ad and several short au. Abdomen: Second tergite and anterior half of 3rd tergite yellow; posterior half of 3rd, 4th and 5th tergites black; 1st to 4th sternites yellow.

HOLOTYPE: Male, Regina Creek, Wau, 28. XII. 1981, S. Shinonaga.

Paratype: 1♂, same locality and collector, 25. XII. 1981.

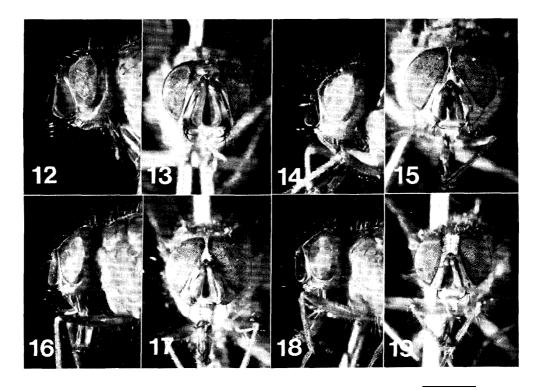
Remarks: This species differs from the other species by having short setae on the dorsal and ventral surfaces on the node of Rs and a parallel-sided froms.



Figs. 1-11. Anterior and lateral views of male head. (Scal: 1.2 mm). 1: Helina papuana, n. sp. 2: Helina fluocharis, n. sp. 3: Helina allisoni, n. sp. 4 and 5: Helina nigricornis, n. sp. 6 and 7: Helina wavensis, n. sp. 8 and 9: Helina fuscifacies, n. sp. 10 and 11: Helina hirashimai, n. sp.

Helina fuscifacies, new species

Male: Body length 4.5-6.0 mm. **Head:** Frons widely open, narrowest part about 0.43 of head width; eyes sparsely covered with microscopic hairs; frontal stripe blackish brown; parafrontals and parafacials brown to blackish brown; parafacials narrow; face reddish brown; *ori* confined on anterior half; 2 proclinate *ors* present; antennae large, dark brown, length of 3rd segment 5x of



Figs. 12-19. Anterior and lateral views of male head. (Scale: 1.2 mm). 12 and 13: Helina grandicornis, n. sp. 14 and 15: Helina mendiensis, n. sp. 16 and 17: Helina nais, n. sp. 18 and 19: Helina nana, n. sp.

2nd segment; arista short feathered; palpi dark brown. Thorax: Scutum reddish brown with 3 dark and obscure longitudinal stripes; pleura orange; ac 0+1; dc 2+3; ia 0+2; h 2; ph 1; nt 2; sa 2; pa 2; st 1+2; scut 1 preapical and 2 lateral; notopleuron with several short setae around 2nd nt; scutellum reddish brown; meso- and metathoracic spiracles orange. Wings: Hyaline; r_1 bare; r_{1+5} bare: m-m straight; squamae brown, marginal cilia dark brown; halter orange. Legs: Coxae, trochanters, femora and tibiae yellow; tarsi black; f_1 with a row of pd and pv; f_1 with p-seta; f_2 without long bristles, 3 preapical pd; f_2 with 2 p-seta; f_3 with a row of pd and pd on distal half; p with 1 p and several p p second tergite and anterior half of 3rd tergite orange; posterior half of 3rd, 4th and 5th tergites black.

HOLOTYPE: Male, Nami Creek, Wau, 19. XII. 1981, S. Shinonaga.

Paratypes: $3 \, \text{3B}$, same data as holotype; $5 \, \text{BB}$, same locality and collector, 31. XII. 1981; $2 \, \text{BB}$, Wau, 5-17. I. 1974, R. Kano and S. Shinonaga; $4 \, \text{BB}$, Wau, 22-31. XII. 1973, H. Shima; $9 \, \text{BB}$, Wau, 10-13. I. 1974, S. Shinonaga.

REMARKS: This species has the following characters: from widely open,

distinct *ors* present, antennae dark brown, face reddish brown, arista pubescent, t_1 with p-seta and anterodorsal bristle, squamae dark brown, scutellum hairy on lateral and ventral surfaces and notopleuron bare.

Helina nigricornis, new species

Male: Body length 4.5-5.5 mm. Head: Frons widely open, narrowest part about 0.28 of head width; eyes sparsely covered with microscopic hairs; frontal stripe black, anterior part dark brown; parafrontals black without pollen; parafacials black with grayish pollen; face black; ori cruciate; 2 proclinate ors present; antennae large and black, length of 3rd segment about 5x that of the 2nd segment; arista short haired; palpi dark brown. Thorax: Scutum black, slightly covered with grayish pollen; anterior part of presutural area between dorsocentral bristles grayish seen from behind; notopleuron, humeral callus, mesopleuron and propleuron orange; sternopleuron, pteropleuron and hypopleuron black; $ac\ 0+1$; $dc\ 2+3$; $ia\ 0+1$; $h\ 2$; $ph\ 1$; $nt\ 2$; pra present, much longer than 2nd nt; sa 2; pa 2; scut 1 preapical and 2 lateral; st 1+2; notopleuron bare; scutellum black; meso- and metathoracic spiracles orange. Wings: Hyaline, veins dark brown; r_1 bare; r_{4+5} bare; m-m straight; squamae light brown, marginal cilia dark brown; halter orange. Legs: Coxae and trochanters orange; femora, tibiae, and tarsi blackish; f_1 with long pd and pv; t_1 with pseta ; f_2 with a short row of av, 1 long al; t_2 with 2 p-seta; f_3 with a row of long ad, sparse av and $pv;t_3$ with 1 ad and 5 av. Abdomen: Second and anterior half of 3rd tergites yellow; posterior half of 3rd, 4th and 5th tergites black.

HOLOTYPE: Male, Nami Creek, Wau, 19. XII. 1981, S. Shinonaga.

PARATYPES: 833, same data as holotype; 233, same locality and collector, 10. XII. 1981; 333, Wau, 22-31. XII. 1973, H. Shima; 1133, Wau, 5-17. I. 1974, R. Kano and S. Shinonaga.

Remarks: The present species is characterized by the large and black antennae and widely open from with distinct ors as in female. The species is closely related to H. fuscifacies by having p and ad setae on t_1 , but easily differentiated by the black antennae and face.

Helina nais, new species

Male: Body length 4 **5 5.5** mm. *Head:* Frons narrow, narrowest part a little wider than diameter of front ocellus; eyes covered with microscopic hairs; frontal stripe black; parafrontals and parafacials black; parafacials narrow with grayish pollen; *ori* reaching to ocellar triangle; *ors* absent; antennae black to dark brown, length of 3rd segment about 4x that of the 2nd segment; palpi dark brown. *Thorax:* Scutum black, slightly covered with grayish pollen, lateral margin reddish; $ac\ 0+1$; $dc\ 2+3$; $ia\ 0+1$; $h\ 2$; $ph\ 1$; $nt\ 2$; sa 2; $pa\ 2$; $pra\ present$, longer than 2nd nt; $st\ 1+2$; $scut\ 1$ preapical and 2 lateral; scutel-

lum black, with microscopic hairs on ventral surface; prosternum bare; mesoand metathoracic spiracles yellow. Wings: Hyaline; veins dark brown; r_1 bare; r_{1+5} bare; m-m straight; squamae dark brown, marginal cilia concolorous; halter orange. Legs: Coxae, trochanters and basal 1/3 of femora orange; fore tibiae brown, other parts black; f_1 with a row of pd and pv; t_1 without p-seta; f_2 with a short row of av, sparse long bristles on pv; t_2 with 2 p-seta; t_3 with a row of ad and av, long bristles on pv; t_3 with 1 ad, and 3-4 av. Abdomen: Second and anterior part of 3rd tergites yellow; posterior half of 3rd, 4th and 5th tergites black.

HOLOTYPE: Male, Mendi, Nipa, 2,000 m, 3. II. 1978, R. Kano.

Paraty Pes: 233, same data as holotype; 13, Wau, 5-17. I. 1974, R. Kano; 633, Nami Creek, 1,700 m, 19. VII. 1982, S. Shinonaga; 13, same locality and collector, 19. XII. 1981.

Remarks: This species is closely related to *H. mendiensis*, but differs from it in having much shorter *ori* on anterior half of parafrontals which are longer in *mendiensis*.

Helina grandicornis, new species

Male: Body length 5.0-6.5 mm. Head: Frons widely open, narrowest part (vertex) about 0.32 and widest part 0.40 of head width; eyes sparsely covered with microscopic hairs; frontal stripe black to dark brown; parafrontals black, narrow with grayish pollen; ori cruciate, situated on anterior part; 2 proclinate ors present; antennae reddish brown, extraordinarily large; length of 3rd antennal segment about 4x that of the second segment; arista dark brown, short haired; palpi dark brown. Thorax: Scutum reddish brown with 3 longitudinal stripes which fused on presutural area; ac 0+1; dc 2+3; ia 0+1; h2; ph 1; nt 2; pra present, much longer than 2nd nt; sa 2; pa 2; st 1+2; scut 1 preapical and 2 lateral; notopleuron with several hairs around 2nd nt; scutellum reddish brown, darker basally; meso- and metathoracic spiracles orange. Wings: Hyaline; r_1 bare; r_{4+5} bare; m-m straight; squamae dark brown, marginal cilia concolorous; halter orange. Legs: Coxae, trochanters and femora orange except distal part black; tibiae and tarsi black; f_1 with a row of pdand p_0 ; t_1 with p-seta; f_2 with short row of av, 2al on middle part; t_2 with 2 p-seta; f_3 with a row of ad and av, sparse row of pv; t_3 with 1 ad and several av. Abdomen: Second and anterior part of 3rd tergites yellow; posterior half of 3rd, 4th and 5th tergites black.

HOLOTYPE: Male, Nami Creek, Wau, 1,700 m, 19. VII. 1982, S. Shinonaga.

PARATYPES: 233, same data as holotype; 13, Wau, 5-17. I. 1974, R. Kano; 333, 22-31. XII. 1973, H. Shima; 233, Mendi, Nipa, 2,500 m, 3. II. 1978, R. Kano.

Remarks: The present species is closely related to *H. nigricormis* by having large antennae and blackish face, but easily differentiated by the reddish

brown antennae and 3 dark longitudinal stripes on the scutum.

Helina mendiensis, new species

Male: Body length 5.0-5.5 mm. Head: Frons narrow, narrowest part about same width of front ocellus; eyes sparsely covered with microscopic hairs; frontal stripe black, interrupted on the middle part by closed parafrontals; parafrontals and parafacials black, narrow, with grayish pollen; ori reaching to near frontal lunula, anterior half long and hair-like and cruciate, posterior half short and inclinate; ors absent; antennae black, length of 3rd segment about 3x that of the 2nd segment; palpi brown. Thorax: Scutum black, reddish brown laterally; ac 0+1; dc 2+3; ia 0+1; h 2; ph 1; nt 2; pra present, longer than 2nd nt; sa 2; pa 2; st 1+2; scut 1 preapical and 2 lateral; notopleuron bare; scutellum black, bare ventral surface; meso- and metathoracic spiracles yellow or orange. Wings: Hyaline; r_1 bare; r_{1+5} bare; m-m slightly bending anteriorly; squamae dark brown, marginal cilia concolorous; halter orange. Legs: Coxae, trochanters and basal half of femora orange, other parts black; f_1 with a row of pd and pv; t_1 with p-seta; f_2 with long hair-like au and pv throughout on its length; t_2 with 2 p-seta; f_3 with a row of ad and av, several hair-like pv on basal 1/3; t_3 with 1 ad and av. Abdomen: Second and anterior half of 3rd tergites yellow; posterior half of 3rd, 4th and 5th tergites black.

HOLOTYPE: Male, Mendi, Nipa, 2,000 m, 3. II. 1978, R. Kano.

Paratypes:5♂♂, same data as holotype.

Remarks: This is a small and dark species closely related to \pmb{H} . nais, but differs from it in having long and cruciate ori on anterior half of parafrontals which are short in nais.

Helina nana, new species

Male: Body length 4.0-4.5 mm. **Head:** Frons widely open, narrowest part 0.37 of head width; eyes sparsely covered with microscopic hairs; frontal stripe black with grayish pollen, parallel-sided; parafrontals black, shining; parafacials black, narrow, with grayish pollen; ori extending on its entire length; 1 very small ors present; antennae black, length of 3rd segment about $3.5 \times$ that of the 2nd; arista pubescent, black; palpi dark brown. **Thorax:** Scutum black, slightly covered with grayish pollen; ac 0+1; dc 2+3; ia 0+1; h 2; ph 1; nt 2; pra present; sa 2; pa 2; scut 1 preapical and 2 lateral; st 1+2; scutellum black, bare ventral surface; mesothoracic spiracles yellow. wings: Hyaline; r_1 bare; r_{4+5} bare; m-m slightly bending anteriorly; squamae dark brown, marginal cilia concolorous; halter orange. Legs: Orange except tarsi black; f_1 with a row of pd and pv; f_1 with p-seta; f_2 with 3 preapical pd; f_2 with 2 p-seta; f_3 with a row of ad and av; f_3 with 1 ad and av. Abdomen: Second

and basal half of 3rd tergites yellow; posterior half of 3rd, 4th and 5th black. Holotype: Male, Wau, 5-17. I. 1974, R. Kano.

PARATYPES: 3 d, same data as holotype; 3 d, Nami Creek, Wau, 1,700 m, 19. VII. 1982, S. Shinonaga.

Remarks: This species is characterized by the following characters: widely open frons, dark brown antennae, t_1 with p-seta, t_1 without ad, notopleuron hairy around 2nd nt, scutellum setose laterally and dark brown squamae.

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