ALTICINAE OF NEW GUINEA I. MICREPITRIX
(Coleoptera: Chrysomelidae)¹

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Abstract: The genus Micrepitrix is reported from New Guinea for the first time; 3 new species are described and illustrated.

Genus Micrepitrix Laboissière


Diagnosis: dorsum sparsely clothed with erect setae; prothorax transverse, basal margin narrower than elytral base, ante-basal impression reaching side; procoxal cavity closed posteriorly; abdomen with sternite 1 longer than following 3; metatibia with 1 minute spine.

The genus is previously unrecorded from New Guinea; 3 new species are described and illustrated here.

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1. Frontoclypeus strongly produced anteriorly; gena 3/4 or more as deep as eye ........ 2
Frontoclypeus not strongly produced anteriorly; gena at most 2/3 as deep as eye, usually about 1/2 as deep ............................................. 3

2. Elytron with a longitudinal, strongly inflated post-humeral swelling on basal 1/2;
   dorsum yellow testaceous ........................................................... dimorpha ♀
   Elytron lacking a post humeral swelling; humeral interstice rather evenly costate;
   dorsum yellow testaceous ........................................................... dimorpha ♂

3. Interocular space about 1.4× as large as narrowest diameter of eye; pronotal disc
   with most punctures 0.6-1.0× as large as interspaces; dorsum piceous .......... picea
   Interocular space about 1.8× as large as narrowest diameter of eye; pronotal disc
   with most punctures about 2× as large as interspaces; dorsum yellow testaceous
   ........................................................................... serraticollis

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Micrepitrix dimorpha Samuelson, n. sp. Fig. 1.

♀. Dorsum yellow testaceous; elytron slightly darker than pronotum; antenna with apical 5 segments darkened; prosternum and legs yellow testaceous; remaining sterna and abdomen brownish. Dorsum sparsely clothed with long, pale erect setae; vertex with a transverse row of 4 long setae; antenna submoderately clothed, apical segments with long setae as well as shorter hairs; ventral surfaces and legs moderately clothed with short, subadpressed hairs.

Head distinctly longer than broad, widest at eyes, narrower than prothorax; labrum with anterior margin convex, surface microgranulate; frонтоклыпеus carinate medially, sides weakly impressed, anterior margin straight with side slightly swollen; interantennal space carinate, ending at postantennal swellings, 7/10 as broad as transverse diameter of antennal socket; antennal socket circular, feebly margined; eye subrounded; interocular space 1.8× as broad as narrowest diameter of eye; gena nearly 4/5 as deep as eye; postantennal swellings oblique, slightly broader than deep, separated medially by a fine line; vertex evenly convex, smooth excepting transverse row of seta-bases. Antenna 3/4 as long as body, apical segments thickened; segment 1 thickest near middle; 2 strongly dilated, thickest preapically; 3 slender, gradually thickened to apex; 4–6 dilated apically; 7–8 more strongly dilated than 6; 9–10 strongly swollen, thickest at apical 1/3; last fusiform, apex acute; relative lengths of segments as follows: 11 : 9 : 9+ : 7+ : 8+ : 8 : 8+ : 8 : 9 : 9 : 9 : 13. Prothorax nearly 7/10 as long as broad, widest near apical 1/3, base narrower than elytra; anterior margin nearly straight, not distinctly microserrate; anterior angle small, rounded; side more strongly convex anteriorly, basal portion convexly narrowed to prebasal constriction; posterior angle briefly rounded; basal margin feebly sinuate; disc strongly punctured on anterior 2/3, most punctures 2–3× as large as interspaces; ante-basal impression rather deep, distinctly sinuate and containing a series of small punctures; prebasal area swollen, impunctate. Scutellum about 1/2 as long as broad, apex broadly rounded. Elytron 2.8× as long as broad, broadest near basal 1/3; lateral margin flexed inward embracing side of venter, extreme apex nearly square; humerus briefly swollen, humeral interspace rather evenly costate; surface transversely depressed near basal 2/7; disc with 9 longitudinal rows of punctures, also 1 short sutural row ending near basal 2/7 and a marginal row laterally; most punctures 3× as large as transverse interspaces and 1.5× as large as longitudinal interspaces; interstices swollen; epipleuron narrow. Ventral surfaces with intercoxal piece of prosternum punctate, metasternum with several fine transversely impressed lines and punctures near side, abdomen granulate and sparsely punctulate; abdomen with relative lengths of sternites as follows: 14 : 3+ : 3 : 3+ : 6; last sternite with apical extremity weakly sinuate, surface with a broad, semicircular, preapical impression. Aedeagus moderately arched, 6× as long as breadth at middle, base dilated, apex subacutely rounded, apical 3/8 concave. Legs: metafemur 3× as long as broad, metatibia slightly longer than femur; metatarsus 5/8 as long as tibia, segment 1 with length subequal to 2+3 together, 3 bilobed, claw appendiculate.

Length 1.67 mm; breadth 0.68.

♀. Coloration and vestiture as in ♂. Chiefly differing from ♂ as follows: gena 9/11 as deep as eye; antenna 2/3 as long as body, relative lengths of segments as follows: 11 : 8+ : 7 : 8 : 7+ : 7+ : 8+ : 8+ : 8+ : 13; prothorax 5/7 as long as broad; elytron strongly swollen a short distance behind humerus, from basal 1/6 to basal 5/12, swelling about
3× as long as high and 3 interstices broad, outline of swelling evenly convex; abdomen with relative lengths of sternites as follows: 15:4+ : 4:2+: 7; last sternite with apical margin slightly convex, surface with a fine, transverse line at apical 1/3, area behind line paler than area preceding it.

Length 1.69 mm; breadth 0.81.

Paratypes: Coloration and vestiture as above.

Length 1.59-1.69 mm; breadth 0.69-0.73.

Holotype ♂ (Bishop 3733), NW New Guinea, Wisselmeren, Waghete, Tigi L., 1700 m, 16.VIII.1955, Gressitt; allotype ♀, same data; 4♂ paratopotypes, same data; 2♀ paratopotypes, same data; 1 paratype ♂, Wisselmeren, Enarotadi, 1900 m, 21.VIII.1955, Gressitt.

Differs from coomani Lab. and carolina (Chôjô) by having gena 4/5 or more as deep
as eye instead of about 1/2 as deep; from serraticollis, n. sp. by having anterior margin of pronotum not distinctly microserrate; from picea, n. sp. by having larger pronotal punctures and paler coloration; from last 2 by having more a produced gena.

**Micrepitrix picea** Samuelson, n. sp.  
Fig. 2.

♂. Dorsum piceous; head paler anteriorly, labrum yellow testaceous, frons clypeus red testaceous; antenna with segment 1 brown, 2–6 yellow testaceous, 7–8 reddish, 9–11 piceous; ventral surfaces and femora piceous; tibiae and tarsi brownish. Dorsum sparsely clothed with long, pale, erect setae; vertex sparsely setose; antenna submoderately clothed, with longest hairs on apical 3 segments; ventral surfaces and legs submoderately clothed with short, subadpressed hairs.

**Head** slightly longer than broad, widest at eyes, narrower than prothorax; labrum with anterior margin slightly convex, surface nearly smooth; frons clypeus carinate medially, sides shallowly impressed, anterior margin straight, slightly raised; interantennal space carinate, 5/8 as broad as transverse diameter of antennal socket; antennal socket circular, feebly margined; eye subrounded; interocular space 1.45× as broad as narrowest diameter of eye; gena 2/3 as deep as eye; postantennal swellings oblique, converging anteriorly and connected with median carina of front; vertex unevenly convex, surface with about 14 small punctures. **Antenna** 3/4 as long as body, apical segments thickened; segment 1 fusiform, 2 gradually thickened to apical 1/4, apex narrowed, 3–5 slender basally, dilated apically, 6 barely swollen apically, 7–10 subfusiform, swollen, last fusiform, apex acute; relative lengths of segments as follows: 13 : 11+ : 10+ : 9 : 10 : 8 : 9 : 9+ : 10 : 11 : 14. **Prothorax** 3/4 as long as broad, base narrower than elytra; anterior margin straight, microserrate; anterior angle small, briefly parallel to anterior margin, then oblique laterally; side obliquely expanded to first large seta-base (widest point of prothorax), then gradually narrowed to weak prebasal constriction; posterior angle briefly rounded; basal margin sinuate, broadly convex at middle; disc punctate, most interspaces 1–1.5× as large as punctures, ante-basal impression sinuate, bearing a series of small punctures, prebasal area a little swollen and impunctate. **Scutellum** 5/8 as long as broad, apex broadly rounded. **Elytron** fully 3× as long as broad, broadest at basal 3/8; extreme apex briefly rounded; lateral margin flexed inward embracing side of venter; humerus briefly swollen; surface transversely depressed near basal 1/4; disc with 9 longitudinal rows of punctures, also 1 short sutural row ending at basal 1/4 and a marginal row; most punctures 1.5–2× as large as transverse interspaces and about 1× as large as longitudinal interspaces; interstices impunctate, lateral 3 most strongly swollen; epipleuron narrow. **Ventral surfaces** with intercoxal piece of prosternum punctate, metasternum smooth, abdominal sternites microgranulate; abdomen with relative lengths of sternites as follows: 17 : 4+ : 4 : 4 : 7; last sternite with apical margin sinuate, extremity obtusely produced, preapical area with a shallow, triangular impression. **Aedeagus** slightly arched; 8.2× as long as narrowest width near middle; base dilated, rounded; apex acute; surface of apical 2/5 concave. **Legs**: metafemur 2.6× as long as broad; metatibia slightly shorter than femur; metatarsus 3/4 as long as tibia, segment 1 subequal in length to 2+3 together, 3 bilobed, claw appendiculate.

Length 1.92 mm; breadth 0.81.

♀. Differing from ♂ as follows: antenna yellow testaceous, apical 3 segments brown-
ish, length 2/3 as long as body, relative lengths of segments as follows: 11 : 9+ : 8+ : 6 : 6 : 6 : 7+ : 7+ : 8+ : 8+ : 13; prothorax 2/3 as long as broad, most discal punctures about as large as interspaces; abdomen sparsely punctulate, relative lengths of sternites as follows: 17 : 3+ : 3 : 3+ : 5; last sternite with apical extremity subtruncate, surface with a preapical puncture.

Length 1.67 mm; breadth 0.76.

Paratypes: Piceous above; discal punctures of pronotum mostly smaller than interspaces.

Length 1.56–1.80 mm; breadth 0.70–0.75.

Holotype ♀ (Bishop 3734), NE New Guinea, Kumur, Upper Jimmi V., 1000 m, 13.07.1955, Gressitt; allotype ♂, same data; 2 paratypotypes, same data; 1 paratype, Korop, Upper Jimmi V., 1300 m, 12.07.1955, Gressitt; 1 paratype, Nondugl, 1600 m, Waghi V., 9.07.1955; 1 paratype, SE New Guinea, Mendi, S Highlands, 1660 m, 6.X.1958, Gressitt.

Differs from *coomani* and *carolina* by having gena more strongly produced; from *dilmorpha* and *serraticollis*, n. spp. by darker coloration, and from all 4 by having smaller punctures on pronotal disc.

**Micrepitrix serraticollis** Samuelson, n. sp. 

♀. Yellow testaceous; eye, apex of mandible, apical antennal segment, parts of metasternum and claws darker red to brown testaceous. Dorsum sparsely clothed with long, pale, erect setae; vertex with a transverse row of 4 long setae; antenna submoderately clothed, apical 7 segments with long setae as well as shorter hairs; ventral surfaces and legs moderately clothed with short, subadpressed hairs.

**Head** distinctly longer than broad, widest at eyes, narrower than prothorax; labrum with anterior margin slightly convex, surface smooth; frontoclypeus carinate medially, sides shallowly impressed, anterior margin straight, feebly raised; interantennal space carinate, 4/5 as broad as transverse diameter of antennal socket; antennal socket circular, weakly margined; eye subrounded; interocular space slightly over 1.8× as broad as narrowest diameter of eye; gena 8/13 as deep as eye; postantennal swellings oblique, about as broad as deep, separated medially by a fine line and partially by upper end of carina of front; vertex evenly convex, smooth excepting transverse row of 4 seta-bases. **Antenna** 4/5 as long as body, apical segments thickened; segment 1 thickest at middle, 2 gradually thickened to apical 1/4; 3–6 dilated, thickest preapically, 7–8 more strongly dilated than 6; 9–10 more strongly dilated than 8, last fusiform, apex acute; relative lengths of segments as follows: 12 : 10 : 8 : 8+ : 9+ : 9+ : 9+ : 10 : 10 : 14. **Prothorax** 5/8 as long as broad, base narrower than elytra; anterior margin straight, microserrate; anterior angle small, obtuse-rounded, slightly produced anteriorly; side moderately convex anteriorly, widest at apical 1/3, nearly straight posteriorly to prebasal constriction; posterior angle rounded; basal margin sinuate; disc strongly punctured on apical 3/5, most interspaces about 1/2 as large as punctures, basal 2/5 impunctate excepting a series of punctures in sinuate ante-basal impression. **Scutellum** about 5/8 as long as broad, apex broadly rounded. **Elytron** 2.5× as long as broad, broadest at basal 3/7, extreme apex nearly square, apex of sutureal margin briefly and acutely produced; lateral margin flexed inward embracing side of venter; humerus briefly swollen, humeral interstice costate; surface broadly and shallowly impressed.
before basal 1/3; disc with 9 longitudinal rows of punctures, also 1 short sutural row ending near basal 1/4 and a marginal row; most punctures 2·3× as large as transverse interspaces and about 1× as large as longitudinal interspaces; interstices a little swollen, lateral interstice widest near middle; epipleuron narrow. Ventral surfaces with intercoxal piece of prosternum punctate, metasternum mostly smooth and abdomen granulate and sparsely punctulate; abdomen with relative lengths of sternites as follows: 14:3+2+2+:6+: last sternite with extreme apex truncate, surface with a broad, semicircular, preapical impression. Aedeagus moderately arched, 5.9× as long as breadth at middle, base feebly dilated, apex subacutely rounded, apical 4/9 concave. Legs: metafemur 2.3× as long as broad, broadest near middle; metatibia with length subequal to femur; metatarsus 4/7 as long as tibia, segment 1 with length subequal to 2+3 together; 3 bilobed; claw appendiculate.

Length 1.66 mm; breadth 0.78.

♀. Coloration and vestiture as in ♂. Chiefly differing from ♂ as follows: antenna 8/11 as long as body, relative lengths of segments as follows: 12:8:8+:7+:9:8:9:9+:0:13; abdomen with relative lengths of sternites as follows: 16:4:4:3:6; last sternite with apical extremity truncate, surface flat, with a fine, transverse, preapical line.

Length 1.82 mm; breadth 0.86.

Paratypes: Color and vestiture as in ♂.

Length 1.62-1.69 mm; breadth 0.78-0.83.

Holotype ♂ (Bishop 3735), NW New Guinea, Wisselmeren, Obano, 1770 m, Paniai L., 9.VIII.1955, Gressitt; allotype ♂, same data; 2 paratypotypes, same data; 1 paratype, Wisselmeren, Enarotadi, 1900 m, 20.VIII.1955, Gressitt.

Differs from coomani, carolina and picea, n. sp. by paler coloration; from dimorpha, n. sp. by having prothorax more transverse.