INSECTS OF MICRONESIA
Coleoptera: Cybocephalidae¹

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From the several genera of the family only two are known from the Oriental Region and from Micronesia only one, Cybocephalus Er., can be recorded.

Genus Cybocephalus Erichson

Cybocephalus Erichson, 1844, in Germ. Zeit. 5: 441.
Stagonomorpha Wollaston, 1854, Ins. Mader., p. 482.

The genus is represented by many species in the Oriental and Australian
regions but the rich Micronesian material (155 specimens) has provided only
3 species. Two of the species show a very close relation to the Oriental and
Palearctic fauna but the third seems to be endemic in Micronesia. C. nipponicus
E.-Y. occurs from Japan through China and India to Micronesia without
splitting into geographical races. C. politissimus Reitt. forms several geographical
races (partly undescribed) from the Palearctic through Tonkin, Philippines, Micronesia to the Solomon Islands. C. gressitti n. sp. has no close rela-

¹This represents, in part, Results of Professor T. Esaki's Micronesian Expeditions (1956-1960), No. 131. Printed with funds from NSF grant GN-60 to Bishop Museum.
tions on either side of its Micronesian distribution.

1. **Cybocephalus politissimus palauanus** Endrödy-Younga, n. subsp. (fig. 1)

This new form is a geographical race of *C. politissimus* Reitter, a species with an apparently vast distribution area from the Mediterranean to the Solomon Islands. The species seems to be very conservative on the temperate part of the Eurasian continent but splits into geographical races in the Oriental archipelagoes.

Dark brown, only head of male and lateral margin of prothorax in both sexes yellowish brown or yellow. The new subspecies will be described in comparison with subsp. *politissimus* Reitt.

**Male:** Head short and broad, clypeus produced. Eyes broader with more arcuated internal margin. Surface of disc shiny though shagreening somewhat more distinct; very finely punctured. Brownish yellow. Prothorax similar. Three-armed punctation of elytra more distinct. Ventral side, antennae, front tibiae and flat angle of hind margin of hind femur similar. Penis broad, apical margin slightly more arcuate truncate, apical side angles more obtuse; triangular median protuberance very small. Median plate of the surface at the apex elevated (fig. 1 a, b). Length 0.16 mm, breadth 0.15 mm. Basal plate small, shorter triangular (fig. 1 c). Length 0.17 mm, breadth 0.15 mm.

**Female:** Unicolorous dark brown, only lateral margin of prothorax and apical margin of elytra lighter, transparent. Length: 1.0 mm.—Breadth 0.8 mm.


**DISTRIBUTION:** W. Caroline Is. (Palau).

2. **Cybocephalus nipponicus** Endrödy-Younga (fig. 2)


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**Figure 1.** *Cybocephalus politissimus palauanus* n. ssp. a, penis, dorsal view; b, penis lateral view; c, basal plate, ventral view.

**Male:** Head broad, Clypeus moderately produced. Eyes large with internal margins strongly arcuate. Surface of disc shiny, sometimes finely and indistinctly shagreened; punctuation fine; yellow to yellowish brown. Prothorax strongly convex, lateral margins slightly curved or almost straight; anterior angle much narrower arcuate than posterior (fig. 2 a). Surface of disc very shiny, sometimes at the side lobes finely shagreened; punctuation fine; color similar to that of the head with narrow black basal margin. Elytra convex, sides and profile evenly arcuated, somewhat shorter than combined breadth (37:40). Surface shiny or finely shagreened; punctuation at the base fine and simple, towards middle clearly three-armed; black. Prosternum and mesosternum yellow or brown. Pygidium, abdomen and metasternum black with strong and indistinct sculpture and with dense, short silvery clothing of hairs. Antennae and legs yellow or light brown. Front tibiae towards apex slightly explanate, lateral angle of apex sharp right-angled (fig. 2 b). Hind femora simple, without any angle on the hind margin.—**Penis** large with parallel sides at base, from here to a large apical triangle extended, in profile twice strongly curved (fig. 2 c, d). Length 0.27 mm, breadth 0.15 mm. Basal plate with parallel sides at base, distally into a peak curved (fig. 2 e). Length 0.23 mm, breadth 0.16 mm.

**Female:** Black, only lateral margin of prothorax and apical margin of elytra yellowish transparent. Length: 1.0–1.35 mm. Breadth: 0.75–0.95 mm.

**Distribution:** Palearctic and Oriental Asia, Ceylon, Marianna Is., W. Caroline Is.

**Material examined:** 60 ♂ and 55 ♀. All specimens but the 4 ♀ from Ponape are paratypes.


on cassava (Bishop); 11 ♂, 11 ♀, 23. Aug. 1946, on Coccids on Pandanus leaves, Oakley (US); 26 ♂, 18 ♀, 12. Nov. 1963, on Aspidiotus destructor on coconut leaves, Tenorio (Bishop).

PONAPE. 4 ♀, Colonia, 15. Nov. 1953, feeding on Aspidiotus destructor on coconut, Beardsley (Bishop Mus.).

3. Cybocephalus gressitti Endrödy-Younga, n. sp. (fig. 3)

Small, comparatively elongate species (fig. 3 a, b). Uinicolorous dark brown, both sexes without metallic sheen. Antennae with 10 segments (fig. 3 c) but without any closer relation to the 10-segmented species of the Palearctic region (C. decamerus E.-Y., C. aurocypreus Reitt., etc.).

Male: Head comparatively narrow, clypeus produced. Front margin of labrum emarginate. Eyes elongate oval, almost parallel with longitudinal axis of head. Antennal fossae and temporal angle distinctly bordered, genae not visible on the side of eyes. Surface of disc

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Figure 3. Cybocephalus gressitti n. sp. a, habitus in dorsal view; b, habitus in lateral view; c, antenna; d, front tibia and tarsi; e, penis, dorsal view of paratype from Satawan; f, penis, dorsal view of holotypus; g, penis lateral view; h, basal plate, ventral view.
distinctly punctured and indistinctly shagreened or shiny. *Prothorax* strongly convex, lateral lobes vertical. Lateral margin long and straight, finely bordered and very finely explanate; front angle more obtuse and narrower rounded than hind angle (fig. 3 b). Punctuation uniform and distinct, surface shiny or indistinctly shagreened. *Elytra* longer than combined width (65: 55), sides almost parallel, apices only slightly rounded, almost truncate (fig. 3 a). Transversely strongly convex; profile in front almost straight, from the last third strongly rounded (fig. 3 b). Median margin and apex of elytra bordered. Punctuation consists of dense and sharply cut deep punctures and minute ones between them (fig. 3 a), punctuation only at apex finer, on the rest of disc being very short three-armed. Surface shiny only occasionally with traces of an indistinct shagreen at shoulders. *Metasternum* and abdomen roughly punctured and clothed with short dark brown hairs. *Antennae* 10 segmented, club indistinctly separated from funicle. 2nd segment cylindrical, 3rd only twice longer the width, the subsequent ones gradually shorter; 7th broader than long. Club compact, two ultimate segments hardly distinguishable (fig. 3 c). *Legs* like antennae dark brown. Front tibiae towards apex broadly dilatated, lateral angle sharp triangular. Tarsi short, first 3 segments only as long as the width of front tibiae at apex; claw segment long (fig. 3 d). Hind tibiae dilated. *Penis* very small, sides parallel at base, then evenly curved to an obtuse-angled apex (fig. 3 e, f, g). Length 0.17 mm, breadth 0.1 mm. Basal plate flatly rounded at apex (fig. 3 h). Length 0.19 mm, breadth 0.13 mm. The figures 3 e (a paratype from Satawan) and 3 f (holotype from Koror) represent two extreme forms of penis. Though the differences are obvious, they are not essential and cannot be connected with any other morphological characters or distribution. The silhouette over fig. 3 f is the vertical view of the apex of the same penis.

**Female**: similar to male. Length: 1.0–1.6 mm. Breadth: 0.62–0.95 mm.

**Material examined**: 16 ♂ and 18 ♀. Holotypus ♂ (US 71554) allotypus ♀ and 34 paratypes from the collections of the Bishop Museum, Honolulu.


**DISTRIBUTION**: Micronesia: Caroline Is.

This species is dedicated to Dr. J. Linsley Gressitt, of Bishop Museum, Honolulu.