

H. Sauter's Formosa-Ausbeute (*Elateridae* II).

Von Yushiro Miwa, Formosa.

Neotricophorus carinicephalus sp. nov.

Chestnut brown, little shining, clothed with fine fulvous hairs. Head convex, with a median longitudinal carina which is running from vertex to frontal border; very closely punctured. Prothorax convex, with dense ocellated punctation; sides rather parallel, slightly and gradually narrowing anteriorly; hind angles acuminate and prolonged backwards, with two acute carinae; scutellum convex, nearly wedged-shaped, with feeble and uneven punctulation. Elytra pale yellow and especially shining at the base, with punctured striae; interstices rather rugosely scabrous. Antennae nearly as long as head and prothorax taken together; 2nd joint shortest; 3rd longer than 2nd; 4th longest and slightly longer than 2nd and 3rd combined; from 4th to 10th gradually shorter and together forming a feeble serration. Legs slender and somewhat paler. — Length 9 mm. Width $2\frac{1}{4}$ mm.

Anping: V, 1911.

Agonischius formosanus Miwa, Ins. Mats. II, No. 1, p. 19, pl. 1, fig. 13. ♂, (*Megapenthes*) (1927). Kankau: V, 1912.

Kankau: V, 1912.

Agonischius gracilis sp. nov.

Pale brownish yellow, shining, with fine griseous pubescence. Head convex, sometimes fuscous, finely and somewhat evenly punctulated; with a longitudinal median channel in frons. Prothorax convex, widest at the base, gradually and gently narrowing anteriorly; sides slightly rounded; hind angles acute and slightly turned outwards, with an acute carina; rather densely punctured on the lateral parts, somewhat sparsely and finely on the disc; scutellum convex, nearly ovate, finely and densely punctulated. Elytra somewhat paler at the base, with punctured striae; interstices finely granulated. Antennae fuscous; basal three joints paler. Legs slender; claws reddish. — Length 6 mm. Width $1\frac{3}{4}$ mm.

Kankau: 7. IV, 1912. Cotype in Ent. Mus. Govern. Res. Inst. Formosa. Horisha: VII, 1926 (Y. Miwa).

***Glyphonyx arisanus* sp. nov.**

Black, with metallic lustre, fine griseous pubescent. Head convex, very finely, evenly and rather sparsely punctured. Prothorax convex, nearly parallel at sides, somewhat rounded at the anterior corner; finely and rather evenly punctated; hind angles acute and prolonged backwards, with a conspicuous carina which is prolonged forwards nearly two thirds of the length of lateral margin; scutellum not convex nor concave, very minutely and sparsely punctulated. Elytra striated with strong punctures; interstices not convex, with fine and minute punctulation. Antennae and legs brownish yellow. — Length. 5½ mm. Width 1½ mm.

Taihorin: 7. VIII, 1911. Cotype in Ent. Mus. Govern. Res. Inst. Formosa. Arisan: XII, 1915 (M. Maki); 10. X, 1912 (I. Nitobe). Kanshirei: 11. V, 1909 (I. Nitobe).

***Glyphonyx brunneipennis* sp. nov.**

Reddish brown, little shining, clothed with tawny piles. Head fuscous, convex, densely and rather coarsely punctured. Prothorax black except the basal part; convex and widest at the base, very slightly and gently narrowing anteriorly, somewhat rounded at the anterior corner; with punctation like that of the head on the lateral parts but somewhat sparser and finer on the disc; hind angles acute and pointed behind, with a carina which is prolonged anteriorly but not beyond the half of the length of lateral margin; scutellum convex, nearly wedged-shaped, feebly and minutely punctulated. Elytra punctate-striate; interstices convex, finely and rather feebly punctured. Antennae yellowish; 2nd joint longer and robuster than 3rd; 4th — 10th triangular and together forming a serration. Legs concolorous with antenna. — Length 6 mm. Width 1½ mm.

Kankau: VI, VIII, IX, 1912.

***Glyphonyx kankau* sp. nov.**

Fuscous, rather dusky, clothed with golden grey hairs. Head convex, very closely and rather coarsely punctured. Prothorax convex somewhat rounded anteriorly, nearly parallel at the sides; very closely and rather reticulately punctated; carina of hind angles prolonged almost two thirds of the length of lateral

margin; scutellum flat, nearly pentagonal, with minute and irregular punctation. Elytra with punctured striae; interstices convex, densely granulated. Antennae dark reddish; 3rd joint longer than 2nd and nearly as long as 4th; 4th — 10th triangular and together forming a serration. Legs reddish brown. — Length 7 mm. Width $2\frac{1}{4}$ mm.

Kankau: VII, 1912. Cotype in Ent. Mus. Govern. Res. Inst. Formosa. Koshun: VII, 1926 (Y. Miwa).

***Glyphonyx Sauteri* sp. nov.**

Elongate, black with brownish tinge at the hind angles of pronotum and upper part of elytra, relatively shining, with fine fulvous pubescence. Head convex, densely and evenly punctured. Prothorax convex, rather longer than width, nearly parallel at the sides and somewhat rounded anteriorly; very densely and finely punctated; carina of hind angles relatively short and not beyond the half of the length of lateral margin; scutellum elevated anteriorly, with fine and minute punctation. Elytra punctate-striate; interstices rather unevenly punctulated. Antennae yellowish; 2nd joint longer and robuster than 3rd; 4th — 10th forming a feeble serration. Legs concolorous with antenna. — Length $4\frac{1}{2}$ — 5 mm. Width $1 - 1\frac{1}{4}$ mm.

Taihorin: 7. VIII, 1911. Taihorinsho: VIII, 1909.

***Glyphonyx castaneus* sp. nov.**

Chestnut brown, shining, with fulvous pubescence. Head convex, somewhat dusky, finely and evenly punctulated. Prothorax convex, rather wider than length, widest at the base, gradually and gently narrowing anteriorly, somewhat rounded at the anterior corner; very densely and rather finely punctured; hind angles acute and pointed backwards, with a distinct carina which beyonds nearly two thirds of the length of lateral margin; scutellum flat, nearly pentagonal, much sparsely and rather obsoletely punctulated. Elytra with punctured striae; interstices finely granulated. Antennae and legs pale yellowish. — Length 4 — 5 mm. Width $1 - 1\frac{1}{2}$ mm.

Taihorin: VII, 1912. Taihorinsho: VIII, 1909.

Cotype in Ent. Mus. Govern. Res. Inst. Formosa.

Horisha: VII, 1926 (Y. Miwa). Gyochi: 20. V, 1909 (I. Nitobe).

*Key to the Species of Formosan **Glyphonyx**.*

- 1 Interstices punctured : (4)
 — Interstices granulated (2)
 2 Body nearly thrice longer than width **kankai**
 — Body more four times longer than width (3)
 3 Reddish brown, a little shining; antennae and legs
 bright reddish yellow **longulus**
 — Castaneous, shining, antennae and legs pale yellow
castaneus
 4 Elytra variegated **Sauteri**
 — Elytra unicoloured (5)
 5 Prothorax and elytra differ in colour (6)
 — Prothorax and elytra correspond in colour **arisanus**
 6 Prothorax bright reddish; elytra black **rubricollis**
 — Prothorax fuscous; elytra brownish yellow
brunneipennis

Literatur.

Schoenichen, Walther, Praktikum der Insektenkunde nach biologisch-ökologischen Gesichtspunkten. 3. verbesserte Auflage. Jena, Gustav Fischer, 1930. X, 256 Seiten. Preis brosch. 12, gebunden 13.50 Mark.

Das Erscheinen der 3. Auflage dieses Praktikums der Insektenkunde ist ein Beweis dafür, daß sich dieses Buch als Einführung in das Studium der Insekten bewährt hat. Der Verfasser hat wiederholt praktische Übungen zur Insektenkunde abgehalten und die dabei gemachten Erfahrungen in diesem Leitfaden verwertet. In der Einleitung wird eine kurze Anleitung zur Präparation der Insekten und zur Anfertigung mikroskopischer Präparate gegeben. In weiteren neun Kapiteln werden Morphologie, Entwicklungsstadien und Biologie typischer Vertreter der Insektenordnungen geschildert. In der 3. Auflage wurden nur einige Kapitel über die Flügeldecken der Käfer, über die *Chironomus*-Larve u. a. neu aufgenommen, die Abbildungen vermehrt und teilweise durch neue ersetzt.

A. Hetschko.

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