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# EAST ASIATIC AND ORIENTAL SPECIES OF STENUS REPRESENTED IN THE COLLECTION OF THE CALIFORNIA ACADEMY OF SCIENCES (COLEOPTERA: STAPHYLINIDAE)

By

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Through the kindness of Mr. Hugh B. Leech I borrowed a small number of west hemisphere species of Stenus. Amongst the material which is quoted here, there was a new species from Taiwan. This species is described below. Although our knowledge of the Taiwan Stenus fauna is very poor, a key to all species known from that island is given.

Stenus (sensu stricto) alienus Sharp.

Stenus alienus Sharp, 1874, Trans. Ent. Soc. London (1874), p. 81.

MATERIAL. One male: Tokyo, 17 May 1931, Gressitt; one female: Manchuria: Mukden, 14 August 1923, Van Dyke.

This species is widely distributed in the southeast palearctic; it is also known from Taiwan: Takakiyama, Sauter (Zoological Museum, Berlin).

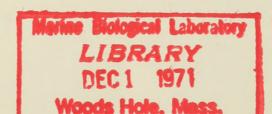
Stenus (sensu stricto) comma LeConte.

Stenus comma LeConte, 1863, Smithson. Miscell. Coll., no. 167, p. 50.

MATERIAL. Two females: Nanking, 14 September 1923, Van Dyke; one female: Manchuria: Kirin, 1 September 1923, Van Dyke; one female: Manchuria: Halling NE, 30 August 1923, Van Dyke.

This species occurs over all the northern hemisphere.

[529]



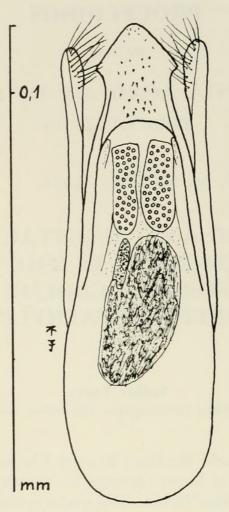


FIGURE 1. Stenus (sensu stricto) insulanus Puthz, new species (paratype), ventral aspect of aedeagus.

**Stenus** (*sensu stricto*) **insulanus** Puthz, new species. (Figure 1.)

This new species belongs to the species complex which has the abdomen feebly margined and in which abdominal keels are lacking.

Black, feebly shining, coarsely, partly rugosely, and very closely, punctured, feebly pubescent. Antennae dark brown. Palpi reddish yellow, 3rd joint infuscated. Legs dark brown. Length 4.7–5.1 mm.

Description. Head: distinctly narrower than elytra  $(1,000 \ \mu : 1,100 \ \mu)$ , front moderately broad (average distance between eyes:  $602 \ \mu$ ), deeply concave with two longitudinal furrows, median part narrower than each of the side-pieces, feebly elevated, deeply under the level of the inner margin of eyes. Punctation moderately coarse and very dense, diameter of puncture larger than section of 3rd antennal segment, interspaces at most as large as half of a punc-

ture. Antennae: damaged in the types, presumably constructed as in S. sauterianus.

*Prothorax:* distinctly longer than broad (884  $\mu$ : 756  $\mu$ ), broadest somewhat behind middle, sides to anterior margin nearly straight, to posterior margin distinctly concave. A feebly horizontal constriction behind anterior margin and a short longitudinal impression on posterior part discally. Punctation coarse and rugose, somewhat coarser than on head.

*Elytra*: distinctly broader than head  $(1,100~\mu~:~1,000~\mu)$ , about as broad as long, humeri prominent, sides roundly enlarged, restricted in posterior third, posterior margin moderately deeply emarginate. Sutural impression deep, humeral impression distinct. Punctation coarse and very dense, coarser than on pronotum, rugosely in lateral direction in outer two-thirds.

Abdomen: feebly narrowed towards apex, sides very feebly margined, paratergites almost smaller than one puncture, basal restrictions of first tergites deep without any cusp. Punctation moderately fine and very dense, somewhat finer than on the front of the head. Legs robust, hind tarsi about as long as two-thirds of the tibiae, 1st segment longer than 2nd and 3rd together, longer than the last. The dorsal surface of the whole insect lacks ground sculpture.

Male: metasternum deeply coriaceous. Tibiae without apical spines. Fourth to 6th sternites very feebly emarginate at posterior margin; 7th sternite with a shallow but distinct emargination at posterior margin, in front of it shallowly impressed and between the punctures deeply coriaceous; 8th sternite with a moderately deep notch in posterior tenth; 9th sternite with strong apicolateral teeth, between them deeply emarginate and serrate; 10th tergite at smooth posterior margin, broadly rounded, slightly concave in the middle.

Aedeagus (fig. 1): broad, the median lobe with a broad lancet-like anterior portion set with short setae ventrally. In the inner lobe there are broad longitudinal expulsation bands and a membranous internal sac with short spines or clasps having a stronger sclerotized portion apically. The parameres are shorter than the median lobe, enlarged anteriorly, and with many setae.

*Female:* eighth sternite rounded apically; valvifera with a strong lateral tooth; 10th tergite as in male; no sclerotized spermatheca.

TYPE MATERIAL. Holotype, male, and male and female paratypes (female partly damaged): Taiwan, Keelung (= Chi-lung), June 1954, T. C. Maa. Holotype in the California Academy of Sciences, paratypes in the California Academy of Sciences and in the collection of the author.

At present I do not know the sister-species (sensu Hennig) of *Stenus insulanus*. Its closest relatives known are *S. duplex* Benick (China) and *S. sauterianus* Bernhauer (Taiwan). For identification see the key below.

#### KEY TO THE SPECIES OF STENUS FROM TAIWAN

<sup>1 (24)</sup> Abdomen margined

<sup>2 (11) 4</sup>th tarsal segment simple

| 3   | (4)  | Elytra with a reddish yellow spot. Length 4.2-5.0 mm. S. alienus Sharp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4   | (3)  | Elytra unicolorous                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 5   | (8)  | Abdomen without carinae in basal restrictions of tergites                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 6   | (7)  | Abdomen broadly margined, elytra near suture irregular and smooth. Median                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|     |      | lobe nearly straight-sided to acute apex. Length 5.0-5.5 mm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| -   | ( () | Abdomen very finely margined, elytra near suture coarsely and very densely                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 7   | (6)  | punctured. Median lobe as in fig. 1. Length 4.7–5.1 mm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|     |      | S. insulanus Puthz, new species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 8   | (5)  | Abdomen with keels in basal restrictions of tergites                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 9   | (10) | Abdominal carinae 3-cuspid; male sexual characters as in fig. 4 of Benick,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|     | (10) | 1941. Length 5.0-5.8 mm. S. formosanus L. Benick                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|     |      | (synonyms S. formosae Wendeler, S. forterugosus Bernhauer, S. submarginatus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|     |      | Bernhauer)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 10  | (9)  | Abdominal carinae 4-cuspid. Aedeagus (compare Benick 1915, fig. 5). Length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|     |      | 2.9-3.5 mm S. melanarius verecundus Sharp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 11  | (2)  | 4th tarsal segment bilobed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 12  | (15) | Elytra immaculate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 13  | (14) | Larger species, 6.0 mm. long. Median lobe broadly truncate at apex, apical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|     |      | portion longer than basal one S. rugosipennis Cameron                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 14  | (13) | Smaller species, 3.7-4.2 mm. long. Median lobe rounded at apex, parameres                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|     |      | enlarged trumpet-like to apex S. rugipennis Sharp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|     |      | (Stenus sharpianus Cameron, 1930 (Ent. Monthly Mag., vol. 66; A 205), new                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|     |      | synonymy.) I borrowed the types of S. rugipennis and S. sharpianus from the British Museum (Natural History); they are conspecific!                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 15  | (12) | Elytra with yellow or reddish spots                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 16  | (19) | Head nearly as broad or broader than elytra with very large eyes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 17  | (18) | Elytral spot larger, as large as 4–5 punctures together. Aedeagus as in fig. 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1,  | (10) | of Puthz, 1968a. Length 6.0-7.2 mm. S. gestroi taiwanensis Puthz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|     |      | (in the diagnosis I regarded this as a subspecies of S. submaculatus Bernhauer;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|     |      | since then I have found that S. submaculatus and S. taiwanensis both are sub-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|     |      | species of the polytypic S. gestroi Fauvel)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 18  | (17) | Elytral spot smaller, as large as 2 punctures together. Median lobe extending                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|     |      | distinctly beyond the parameres. Length 5.2-5.7 mm. S. stigmatipennis L. Benick                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 19  | (16) | Head distinctly narrower than elytra, eyes smaller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 20  | (21) | Larger, abdomen very finely bordered laterally. Aedeagus as in fig. 19 of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|     |      | Puthz, 1968a. Length 5.5–6.0 mm. S. miwai Bernhauer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 21  | (20) | Smaller, not exceeding 5.3 mm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 22  | (23) | Abdominal punctation fine and very dense. Aedeagus as in fig. 62 of Puthz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|     |      | (1969). Length 4.5–5.0 mm. S. virgula Fauvel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|     | ()   | (synonym S. kwantungensis Cameron)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 23  | (22) | Abdominal punctation moderately coarse and moderately close. Aedeagus nar-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2.4 | ( 1) | rower, median lobe truncate apically. Length 4.5-5.3 mm. S. arisanus Cameron                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 24  | (1)  | Abdomen emarginate. Prothorax and abdominal segments 3 to 6 reddish                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     |      | yellow. Aedeagus as in fig. 3 of Scheerpeltz, 1957. Length 5.0–5.6 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|     |      | (one male in British Museum from Taiwan).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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# Stenus (Hypostenus) mercator Sharp.

Stenus mercator Sharp, 1889, Ann. Mag. Nat. Hist., 6th ser., vol. 3, no. 16, p. 333.

MATERIAL. One male: Nanking, 14 March 1923, Van Dyke. Known from China to Japan.

## Stenus (Hypostenus) cicindeloides (Schaller).

Staphylinus cicindeloides Schaller, 1783, Abh. Hallisch. Naturforsch. Ges., vol. 1, p. 324.

MATERIAL. Six females: Nanking, 23 March and 21 April 1923, Van Dyke; two females: Suisapa, 1,000 m., Lichuan District, West Ho-pei, 25 July 1948, Gressitt and Djou.

This species occurs over the whole Palearctic region, south to Vietnam.

## Stenus (Hypostenus) tropicus Bernhauer.

Stenus tropicus Bernhauer, 1915, Philippine Jour. Sci., ser. D, vol. 10, p. 119.

MATERIAL. One male: Manila, May 1906, J. C. Thompson. Well known from the Philippines.

### Stenus (Hypostenus) nothus L. Benick.

Stenus nothus L. Benick, 1929, Dtsch. Ent. Zeitschr., vol. 4, p. 264.

MATERIAL. Three males, two females: San Jose, Mindoro, April, October 1945, E. S. Ross.

Known from Mindoro, also distributed over Borneo and Celebes (British Museum).

## Stenus (Hypostenus) ambiguus L. Benick.

Stenus ambiguus L. Benick, 1929, Dtsch. Ent. Zeitschr., Heft 4, p. 266.

MATERIAL. Two males, two females: Luzon: Mabatobato, Pili Camarines Sur, 16 May 1931, E. E. Schneider.

The aedeagus of this species strongly resembles that of *S. nothus* Benick, but the median lobe extends somewhat beyond the parameres.

# Stenus (Hypostenus) spinosus L. Benick.

Stenus spinosus L. Benick, 1921, Ent. Mitt., vol. 10, no. 6, p. 193.

MATERIAL. One male: Mt. Makiling, Laguna, 800 ft., 5 May 1932, F. C. Hadden.

This species was described from Mt. Makiling.

# Stenus (Hypostenus) subtropicus Cameron.

Stenus subtropicus Cameron, 1949, Proc. U.S. Nat. Mus., vol. 99, no. 3247, p. 464.

MATERIAL. One female: Hai-nan: Ta Hiau, 16 June 1935, Gressitt.

This species has the aedeagus of *S. basicornis* Kraatz and might represent an eastern subspecies of it. A male has also been collected from Pho Vi, Tonkin (in collection of Benick).

### Stenus (Parastenus) bicolon javanicus Bernhauer.

Stenus (Hemistenus) javanicus Bernhauer, 1915, Tijdschr. Ent., vol. 58, p. 216.

Stenus (Parastenus) javanicus L. Benick, 1938, Stettiner Ent. Zeitung, vol. 99, no. 1, pp. 10, 11 (fig.).

Stenus (Mesostenus) bernhaueri CAMERON, 1925 (nec S. bernhaueri Poppius, 1907), Treubia, vol. 6, no. 2, p. 177.

Stenus (Hemistenus) maximiliani Scheerpeltz, 1933, Coleopt. Cat., vol. 129, p. 1192.

Stenus (Parastenus) bicolon javanicus Puthz, 1968b, Notulae Ent., vol. 48, p. 100.

Material. One female: Bali: Bretam Lake, 3,600 ft., 1 October 1956, J. Sedlacek.

Until now only known from Java.

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