A New Species of *Syndicus* (Coleoptera, Scydmaenidae) from Vietnam

Pawel Jałoszyński¹ and Shûhei Nomura²

¹ Os. Wichrowe Wzgórze 22/13, 61–678 Poznań, Poland
E-mail: javpawel@man.poznan.pl
² Department of Zoology, National Science Museum, Hyakunin-cho 3–23–1, Shinjuku-ku, Tokyo, 169–0073, Japan

**Abstract** A new species of the nominotypical subgenus of the genus *Syndicus* Motschulsky, *S. (S.) caugiguanus* sp. nov. is described. This is the fourth member of the genus known from Vietnam (the third of the nominotypical subgenus), and its type material was collected in the Hoa Binh Province. The new species resembles *S. difficilis* Jałoszyński, *S. thailandensis* Jałoszyński, *S. saketianus* Jałoszyński, *S. lamdongianus* Jałoszyński and other similarly slender representatives of the genus. It can be identified on the basis of unique structures of the endophallus, which has very short proximal projection and the central complex is only slightly broader than the distal vesicle. Photos of habitus and illustrations of the aedeagus are given.

**Key words:** Coleoptera, Scydmaenidae, *Syndicus*, new species, Vietnam.

**Introduction**

The genus *Syndicus* Motschulsky (Scydmaeninae, Cyrtoscydmini) has been recently thoroughly revised, and detailed diagnoses of the nominotypical subgenus and a new subgenus *Semisyndicus* have been given (Jałoszyński, 2004). The subgenus *Syndicus* currently comprises twenty species distributed in the Oriental Region and the Himalaya Mts., and two species occurring in Australia. So far, only two species have been known to occur in Vietnam (*S. vietnamensis* Jałoszyński and *S. lamdongianus* Jałoszyński), but taking into account of six species inhabiting Thailand and generally poor knowledge concerning the Scydmaenidae of the region, a larger number of species seem likely to be discovered in the Indochina Peninsula. In the present paper, a new species from the northern part of Vietnam is described under the name *Syndicus (Syndicus) caugiguanus* sp. nov. The nomenclature of endophallus structures and measurements follow those from Jałoszyński, 2004; the holotype is deposited in the Institute of Ecology and Biological Resources, Hanoi, Vietnam (IEBR).

**Syndicus (Syndicus) caugiguanus** sp. nov.

(Figs. 1A, B, 2A, B)

**Diagnosis.** External characters of this species are very similar to several other members of the genus. Therefore, important diagnostic features can be found mostly in the appearance of the aedeagus, which has endophallus with central complex only slightly broader than distal vesicle, very small proximal vesicle, and very short proximal projection. This combination of characters does not occur in any other species of the nominotypical subgenus.

**Description.** Body moderately large, strongly convex, dark brown with slightly lighter legs and palps, covered with brownish setae.

Male (Figs. 1A, B). Body length: 2.97 mm; head broadest at moderately large, strongly convex eyes, length 0.40 mm, width 0.65 mm; vertex regularly convex; frons nearly flat; supraantennal tubercles distinct, well delimited from frons but not delimited from vertex. Punctuation sparse, composed of small but distinct punctures; setation moderately dense, long and erect. Antennae
as in Fig. 1A, 1.87 mm in length.

Pronotum strongly convex, broadest between anterior fourth and third, length 0.95 mm, maximum width 0.72 mm, width at base 0.45 mm; posterior collar distinctly separated from disc by lateral constriction and dorsal row of four nearly circular, deep foveae; posterior margin nearly straight. Disc with sparse punctuation, punctures small but distinct, with slightly raised margins, surface between punctures glossy, dorsal part of posterior collar with similar punctures as those on disc but lateral parts with denser and larger punctation, sides of pronotum posterior to lateral constriction with coarse, dense and irregular large punctures. Setation moderately dense, relatively long, suberect to erect, setae on disc curved, directed posteriorly and toward midline.

Elytra less convex than pronotum, broadly oval, broadest near middle, length 1.62 mm, width 1.07 mm, elytral index (length/width) 1.51. Humeri moderately raised, basal impression on each elytron relatively deep and narrow, apices of elytra separately rounded. Punctuation moderately dense, composed of shallow punctures which are larger than those on pronotal disc, separated by spaces 1.5–2× as long as puncture diameters; se-
Aedeagus (Fig. 2A, B) 0.55 mm in length, with curved and pointed apex in lateral view; parameres slender, exceeding apex of median lobe, with apices slightly curved and expanded in lateral view, without apical setae. Central complex of endophallus moderately darkly sclerotized, in dorso-ventral view composed of broad, nearly hexagonal distal part and proximal, narrower subrectangular structure; distal vesicle large, slightly narrower than central complex, proximal vesicle very small; proximal projection very short and broad; vesicular part of endophallus and proximal part of central complex are surrounded by lightly sclerotized sheath.

Female. Unknown.

Distribution. N Vietnam (Hoa Binh Prov.).


Etymology. “Caugigu” is a name used in Marco Polo’s writings, corresponding to “Ciao Chi Quan”, the name of Vietnam under the Han dynasty.

Remarks. Syndicus caugiguanus has a similar body shape as that of S. difficilis Jałoszyński, S. paeninsularis Schaufuss, S. thailandensis Jałoszyński, S. saketianus Jałoszyński, and other slender, moderately large members of the genus. Using the identification key given in Jałoszyński, 2004, the new species keys out together with S. himalayanus Franz. Apart from minor external differences, these two species differ clearly in the shape of the endophallus, which in S.
caugiguanus has a very short proximal projection (very long in *S. himalayanus*), and the central complex is not divided into separate lateral parts (which is the case in *S. himalayanus*). The shape of the central complex in *S. caugiguanus* is most similar to that in Vietnamese *S. lamdongianus*, but the latter species has a very long proximal projection and the parameres with strongly broadened apices bearing numerous setae. Other species with short proximal projection of the endophallus (though, not as extremely short as that in *S. caugiguanus*) are *S. indicus* Franz from India (which differs in having very broad, bell-shaped central complex and entirely lacks the proximal vesicle), and *S. pseudothailandensis* Jałoszyński from Thailand (also having very broad, subtrapezoidal central apex).

**Acknowledgments**

We express our sincere thanks to Dr. Shun-Ichi Uéno (National Science Museum, Tokyo) for his kind critical reading of the manuscript. The second author is also indebted to Dr. Ha Quang Hung of Hanoi Agricultural University and Dr. Vu Quang Con of the Institute of Ecology and Biological Resources (IEBR), Hanoi for their kind aid in the field works in Vietnam.

This study is supported in part by the Grants-in-aid No. 09041167 for Field Research of the Monbusho International Scientific Research Program and No. 13575015 for Field Research of the Monbukagakusho International Scientific Research Program, Japan.

**Reference**