

NOTES ON BORELLI'S MATERIAL OF DERMAPTERA  
(INSECTA) WITH THE DESCRIPTION OF A NEW  
SPECIES FROM PHILIPPINE ISLANDS

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The present study is based on five examples determined as *Chaetospania kurseonage* Hebard by Borelli (1926). Of these three examples belong to *Chaetospania borellii* Srivastava (1987) which was described on part of the material recorded by Borelli (l.c.) as *C. kurseongae*. The ♂ genitalia of this species is described here for the first time.

The remainin two examples represent an undescribed species of *Chaetospania* Karsch.

***Chaetospania borellii* Srivastava**

(Figs. 1-2)

*Labia ridens* var. *nitens* Borelli, 1923, *Boll. Musei Zool. Anat. comp. R. Univ. Torino*, 38 (N. S. 13) : 8 (Part of the material ; 1 ♂, 1 ♀, Luzon, Limay and 1 ♂ Surigao).

*Chaetospania kurseongae* (nec Hebard) var a ; Borelli, 1926, *Res. Biol.*, 1 (5) : 70.

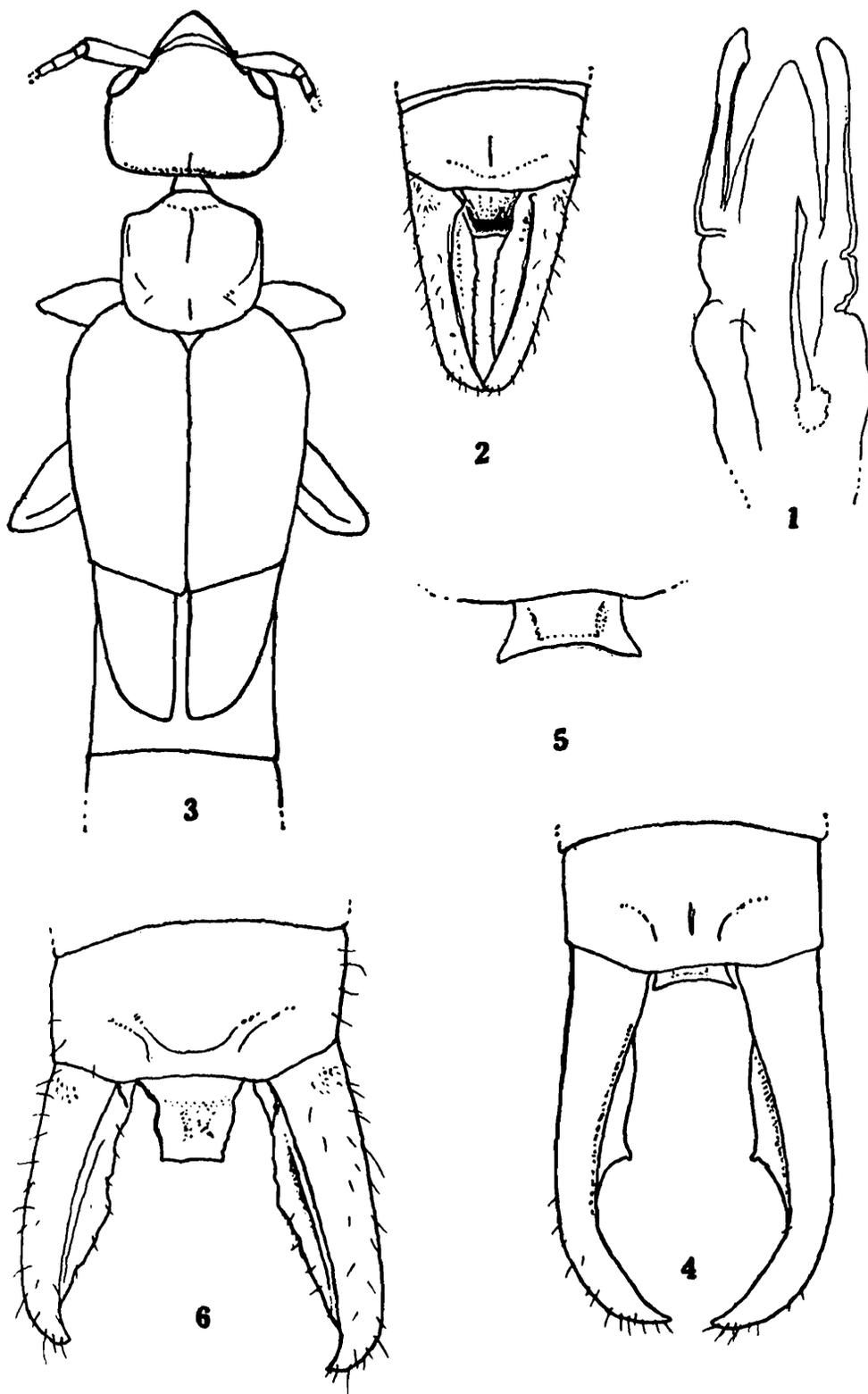
*Chaetospania borellii* Srivastava, *Boll. Mus. reg. Sci. nat. Torino* 5 (2) : 318.

*Material examined* : (I) 1 ♂ labelled as : (i) Island Samar, Baker—a printed label ; (ii) *Chaetospania kurseongae* var. handwritten by Borelli ; (iii) Museo di Zoologia della Univer-sita Torino-Italia-printed ; the genitalia mounted between two coverslips and pinned with the specimen.

(II) 1 ♂ (ultimate tergite and forceps missing) labelled as : (i) Surigao, Mindanao, Baker—printed ; (ii) var. *nitens*

Borelli-handwritten by Borelli ; (iii) Parameri-handwritten by Borelli ; Museo di Zoologia della Universita Torino-Italia.

(III) 1 ♀ labelled as : (i) Luzon, Limay, 10.1913, leg.



Figs. 1-6: *Chaetospania borellii* Srivastava ; ♂, (1) Genitalia ; ♀, (2) Ultimate tergite and forceps ; *Chaetospania makilingae* sp. n., Holotype ♂, (3) Anterior portion of body ; (4) Ultimate tergite and forceps ; (5) Pygidium, enlarged ; ♀ (6) Ultimate tergite and forceps.

G. Boettcher—a printed label ; (ii) ♀ -printed ; (iii) Museo di Zoologia della Universita Torino-Italia.

*Measurements*—(in mm)

	♂	♀
Length of body	4.4	6.4
Length of forceps	1.7	1.9

*Remarks* : This species was described on a ♂ which lacked genitalia.

The material referred here agrees well with the type of the species and the male genitalia and the ♀ are figured here for the first time.

The specimen listed under item II, though without hind portion of the body, may be treated as ♂ since it has been recorded as such by Borelli (1923) from Mindanao.

Besides, the material referred to by Borelli (1926) to *Chaetospania kurseongae* var a, belongs to this species on the basis of brief information furnished by him.

### ***Chaetospania makilingae* sp. n.**

(Fig. 3-6)

*Labia ridens* Bormans var. *nitens* Borelli, 1923, *Boll. Musei Zool. Anat. comp. R. Univ. Toriuo*, 38 (N. S. 13) : 8 (Part of the material-1 ♂ Mont Makiling).

*Chaetospania kurseongae* (nec Hebard) ; Borelli, 1926, *Res. Biol.*, 1 (5) : 70 (♂, ♀ var- b, Mt. Isareg).

*Chaetospania* sp., Srivastava, 1987, *Boll. Mus. reg. Sci. nat. Torino*, 5 (2) : 321, figs. 8-10.

♂ : General colour blackish brown ; head dark brown ; antennae light yellow, pronotum yellowish with a brownish curved patch in anterior half ; legs clear yellow. Finely pubescent.

Head about as long as broad, smooth, frons weakly raised, sutures faint, hind margin emarginate in the middle. Antennae (partly damaged-basal three segments on the right and four on the left remaining), basal segment narrowed

basally, about as long as the distance between antennal bases ; 2nd short, about as long as broad ; 3rd long and slender ; 4th about as long as the preceding but stouter. Pronotum about as long as broad, smooth, sides straight, depressed and parallel, anteriorly convex, hind margin rounded, median sulcus distinct in anterior half only ; prozona raised and metazona depressed. Legs typical for the genus. Elytra and wings well developed, former meeting along the middle line, hind margin obliquely truncate.

Abdomen gradually enlarging from base to apex, tergites moderately depressed, micro-reticulated. Penultimate sternite transverse, punctulate, hind margin rounded with slight emargination in middle. Ultimate tergite transverse, smooth, weakly convex, above the bases of forceps with a low elevation and depressed in middle, hind margin thickened. Pygidium vertical, hind margin emarginate in middle, postero-laterally produced into a triangular point, at base above feebly convex. Forceps remote at base, stout, almost straight in basal two thirds, afterwards incurved, internal margin with dorsal border straight and ventral border forming a flange and terminating into a triangular spine at  $2/3$  of the length, afterwards branches depressed, apices gently hooked and pointed.

♀ : Agrees with males in most characters except pygidium prominent, horizontal, narrowed posteriorly, hind margin truncate, sides with one or two tubercles ; forceps simple and straight.

*Measurements.*—(in mm)

	Holotype	Paratype
	♂	♀
Length of body	7.2	6.4
Length of forceps	2.2	1.6

*Material examined* : Holotype ♂ labelled as : (i) Mt. Makiling Luzon, Baker-printed ; (ii) *Chaetospania kurseonge* Morgan Hebard, Bengale-handwritten by Borelli ; (iii) Museo di Zoologia della Universita, Torino-Italia ; genitalia not traceable, perhaps taken out earlier by Borelli.

Paratype ♀ labelled as : (i) Mt. Isarog, S. Luzon-printed ; (ii) Museo di Zoologia della Universita, Torino-Italia.

Types deposited in Museo ed Istituto di Zoologia Sistematica della Universita di Torino, Torino, Italy.

*Remarks* : It comes close to *Chaetospania borellii* Srivastava from Philippines but differs, in ♂, by the slightly larger size and distinctive pygidium in being vertical, concave posteriorly with postero-lateral angles produced into a triangular point and forceps with internal tooth situated at 2/3 of the length and more prominent.

The ♀ specimen designated here as the Paratype was determined as *Labia ridens* Bormans by Borelli (1923) along with a ♂, bearing identical locality labels, and were referred by him subsequently (1926) to *Chaetospania kurseongae* Hebard. The above ♂ specimen was referred to *Chaetospania* sp. by Srivastava (1987) which belongs to the described species.

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#### REFERENCES

- BORELLI, A. 1923. Dermatteri delle isole Filippine. Nota VI. *Boll. Musei Zool. Anat., comp. R. Univ. Torino*. 38 (N. S. 13) : 8.
- Borelli, A. 1926. Dermatteri delle isole Filippine. Nota VII (I). *Res. Biol.*, 1 (5) : 61-79.
- SRIVASTAVA, G. K. Notes and illustrations on some Borelli's material of Dermaptera (Insecta). *Boll. Mus. reg. Sci. nat. Torino*, 5 (2) : 317-324.