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Omaspides boliviana n. sp., with a key to *Omaspides* s. str.
(Coleoptera: Chrysomelidae: Cassidinae)

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ABSTRACT. *Omaspides boliviana* is described from Bolivia (Caranavi Prov.). It is close to *Omaspides conjugens* SPAETH, 1937 from Peru. A key to species of *Omaspides* s. str. is given.

Key words: entomology, taxonomy, new species, Coleoptera, Chrysomelidae, Cassidinae, *Omaspides* s. str., Neotropical Region.

The genus *Omaspides* CHEVROLAT, 1837 comprises 36 species, divided into three subgenera (BOROWIEC 1999, BOROWIEC and ŚWIĘTOJAŃSKA 2002), 30 of them belong to the nominotypical subgenus. Most species are distributed in mountain regions of South America, especially in Ecuador, Peru, and Bolivia. The genus was partly keyed by SPAETH (1937), only one species was described recently (BOROWIEC 1998).

In the material studied recently I found specimens of a new species of the nominotypical subgenus. Its description is given below. A new key to the nominotypical subgenus is also proposed.

***Omaspides boliviana* n. sp.**

ETYMOLOGY

Named after its terra typica.

DIAGNOSIS

Omaspides boliviana belongs to the group of species with metallic pronotum and elytral disc and partly yellow or red explanate margin of elytra. In most species of the group, the pale pattern forms a round or elongate spot on explanate margin, at a distance from lateral margin of elytra, only in *Omaspides conjungens* Spaeth, 1937 and *O. boliviana* n. sp. the spot occupies whole width of explanate margin up to lateral margin of elytra. *Omaspides conjungens* differs in impunctate surface of pronotal disc with only extremely fine pricks, while in *O. boliviana* disc is distinctly punctate. *O. conjungens* is slightly larger, with body length 12.9-14.5 mm (11.2-12.1 in *O. boliviana*). Yellow spot on explanate margin in *O. conjungens* is larger than in *O. boliviana*, extending to 3/4 length of the margin, while in *O. boliviana* it extends only to 2/3 length of the margin. Extreme external margin of the yellow spot in *O. conjungens* is darker than the spot, brown, while in *O. boliviana* it is yellow, the same colour like the spot.

DESCRIPTION

Length: 11.2-12.1 mm, width: 10.8-11.0 mm, length of pronotum: 3.2-3.3 mm, width of pronotum: 6.1-6.5 mm, length/width ratio: 1.04-1.10, width/length of pronotum ratio: 1.85-1.97. Body almost circular (figs 1, 2).

Pronotum black, with blue, green or cupreous metallic tint. Anterior corners or whole anterior margin narrowly reddish. Elytra black, with blue, green or cupreous metallic tint, explanate margin in middle with large yellow spot occupying whole width of the margin, at a large distance from anterior margin of the explanate margin, extending posteriorly to 2/3 length of the margin. Ventrites black, sides of abdominal sternites with small reddish spot.

Pronotum regularly trapezoidal, sides straight or slightly concave, narrowly marginate. Disc moderately convex, on whole surface finely to moderately coarsely



1-3. *Omaspides boliviana*: 1 - female dorsal, 2 - male dorsal, 3 - male lateral

punctate, distance between punctures from as wide as to thrice wider than puncture diameter. Surface between punctures microreticulate, dull.

Elytra broad, humeri regularly rounded. Anterior margin of elytra in male in humeral part only slightly arcuate, humeri only slightly protruding anterad. Disc unevenly convex, bluntly angulate in profile (fig. 3). Whole surface of disc extremely finely, irregularly punctate, distance between punctures mostly wider than puncture diameter. Surface between punctures dull. Explanate margin of elytra in the widest part approximately twice narrower than disc, its surface as finely punctate as disc, only along border of disc punctures are slightly coarser than in central part of the explanate margin.

Antennae slim, length ratio of antennal segments: 100:46:89:100:89:75:79:79:79:161(male):129(female).

Ventrites without diagnostic characters.

MATERIAL EXAMINED

Holotype: "Bolivia, Caranavi prov., La Paz dp., IX-2000, C. Tello"; paratype: the same data; paratype: the same data but "X-2000"; paratype: the same data but "I-2001" (holotype at P.I.M.E. Entomological Museum, Monza, Italy, paratypes at P.I.M.E. Entomological Museum, Monza, Italy, in the Department of Biodiversity and Evolutionary Taxonomy, Wrocław University, Wrocław, Poland, and in D. SASSI collection).

KEY TO OMASPIDES S. STR.

1. Elytral disc mostly red. Explanate margin of elytra partly red with transverse black bands 2.
- Elytral disc yellow, black, or metallic, or with red or yellow reticulation, or with pale pattern but never mostly red 3.
2. Red spot on explanate margin of elytra with three black transverse bands. French Guyana ***trifasciata* (F.)**
- Red spot on explanate margin of elytra with single black transverse band. French Guyana, Guyana, Suriname, Brazil: Para ***clathrata* (L.)**
3. Elytra mostly yellow, sometimes with black margins or black bands along border of disc but never with black spots or transverse bands 4.
- Elytra mostly dark, black or metallic, sometimes with pale spots, band, or reticulation 13.
4. Pronotum yellow or reddish, sometimes with dark explanate margin 5.
- Pronotum black or metallic, at most anterior margin yellowish 10.
5. Explanate margin of pronotum the same colour as disc 6.
- Explanate margin of pronotum partly black or metallic, disc reddish. Brazil: Bahia, Minas Gerais ***nigrolineata* (BOH.)**
6. Ventrites partly black 7.
- Ventrites yellow or reddish 8.

7. Anterior margin of pronotum rounded. Apex of tibia and tarsi infusate to black. Colombia. *limbipennis* Sp.
- Anterior margin of pronotum truncate. Tibiae and tarsi yellow. Brazil: Sao Paulo *tricolorata* (Boh.)
8. Elytral disc without dark spots. Pronotum yellow or pale red 9.
- Elytral disc in 1/3 length, close to border of disc, with small brown or black spot. Pronotum deep red. Brazil: Rio de Janeiro, Sao Paulo *iheringi* (Sp.)
9. Pronotum pale red, broad, with slightly concave sides, appears triangular. Lateral margin of elytra narrowly black. Widespread in tropical South America *trichroa* (Boh.)
- Pronotum usually yellow or only slightly reddish, with straight sides, appears trapezoidal. Lateral margin of elytra never black. SE Brazil *pallidipennis* (Boh.)
10. Body very broad, wider than long 11.
- Body moderately broad, slightly longer than wide 12.
11. Pronotal disc strongly convex, shiny. Colombia *nitidicollis* Sp.
- Pronotal disc moderately convex, slightly dull. Panama, Colombia, Venezuela *bistriata* Boh.
12. Pronotum with strongly converging sides, appears trapezoidal, its anterior margin narrowly yellow. Ecuador, Peru *abbreviata* Baly
- Pronotum with moderately converging sides, appears almost semicircular, its anterior margin black. Ecuador *helleri* Sp.
13. Elytra completely black or metallic 14.
- Elytra at least on explanate margin with yellow or red spots or reticulation 15.
14. Elytral disc with reticulate sculpture. Ecuador *tenuicula* Boh.
- Elytral disc without reticulate sculpture. Ecuador *unicolor* Bor.
15. Pronotum black or metallic 16.
- Pronotum red. Colombia, Peru, NW Brazil *pulchella* Baly
16. Elytral disc with pale spots or reticulation 17.
- Elytral disc completely black or metallic 23.
17. Elytral disc with yellow spots or yellow to reddish reticulation, without transverse yellow band 18.
- Elytra with yellow band across middle. Peru *flavofasciata* Sp.
18. Explanate margin of elytra with oval or elongate spot, sometimes divided by black transverse bands into two or three separate spots or with yellow to red reticulation 19.
- Explanate margin of elytra with yellow sinuate lines. Peru *ellipsigera* Sp.
19. Elytral disc with yellow to red reticulation, sometimes reduced to several folds in apical part of disc 20.
- Elytral disc with yellow spots 21.

20. Whole elytral disc with reticulate sculpture. Ecuador *bivittata* BALY
 -. Elytral disc without reticulate sculpture, or it is limited to sides and apex of disc, its presence is correlated with presence of reddish reticulation. Ecuador, Peru, Bolivia *augusta* BOH.
21. Elytral disc with yellow spots only in its posterior half 22.
 -. Elytral disc with yellow spots in both anterior and posterior half. Brazil: Amazonas, Para *lunulata* BOH.
22. Spot on explanate margin without black transverse bands. Peru
 *quadrifenestrata* SP.
 -. Spot on explanate margin with two black transverse bands. Ecuador
 *collecta* SP.
23. Yellow or red pattern on explanate margin of elytra forms more or less developed reticulation 24.
 -. Yellow or red pattern on explanate margin of elytra forms round to oval spots, only occasionally marked with dark spots 25.
24. Whole elytral disc with reticulate sculpture. Ecuador *bivittata* BALY
 (form with immaculate elytral disc)
 -. Elytral disc without reticulate sculpture. Ecuador, Peru, Bolivia
 *augusta* BOH.
 (form with immaculate elytral disc)
25. Pale spot on explanate margin marked with small dark spots 26.
 -. Pale spot on explanate margin without small dark spots 27.
26. Spot on explanate margin round with irregular border not or only slightly extending behind half length of elytra, marked with a few irregularly arranged dark spots. Brazil: Amazonas *bioculata* BOH.
 -. Spot on explanate margin elongate, with regular border, distinctly extending behind half length of elytra, sometimes up to apex of the margin, marked with three dark spots arranged in line. Brazil: Amazonas *basilica* BOH.
27. Pale spot on explanate margin extending to lateral margin of elytra 28.
 -. Pale spot on explanate margin separated from lateral margin of elytra by black 29.
28. Pronotum impunctate, at most with fine pricks. Peru *conjugens* SP.
 -. Pronotum distinctly punctate. Bolivia *boliviana* n. sp.
29. Pronotum stout, almost semicircular in outline 30.
 -. Pronotum broad, distinctly trapezoidal to subtriangular in outline 31.
30. Spot on explanate margin of elytra short, only slightly longer than wide. Brazil: Amazonas *scutaria* SP.
 -. Spot on explanate margin of elytra elongate, approximately twice longer than wide. Brazil: Amazonas *amazonica* SP.
31. Spot on explanate margin of elytra short, at most 1.5 times as long as wide 32.
 -. Spot on explanate margin of elytra elongate, approximately twice longer than wide. Colombia, Ecuador, Peru, W Brazil *specularis* ER.

32. Pronotal disc strongly convex, slightly shiny. Costa Rica *convexicollis* Sp.
 -. Pronotal disc only slightly convex, dull. Bolivia, Peru *erichsoni* Sp.

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