

## ***Saphanus piceus perovici* n. ssp. from Pag Island, Croatia (Coleoptera Cerambycidae Spondylidinae Saphanini)**

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### **ABSTRACT**

*Saphanus piceus perovici* n. ssp. (Coleoptera Cerambycidae Spondylidinae Saphanini) from Pag Island (Croatia) is here described. The new subspecies is related with the subspecies *Saphanus piceus ganglbaueri* Brancsik, 1886 described from Montenegro and known from the central and southern part of former Yugoslavia, Albania, Bulgaria, and Greece. The new subspecies is very interesting also due to the peculiar habitat where it was collected: very dry and warm.

### **KEY WORDS**

Coleoptera; Cerambycidae; Spondylidinae; *Saphanus*; new subspecies; Croatia.

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### **INTRODUCTION**

While studying the Cerambycidae collected in various regions of Croatia we found a small series of *Saphanus* Serville, 1834 collected in Pag Island (northern Dalmatia) that, after a deeper study, appears to belong to a new taxon described in this paper. The genus *Saphanus* until now has been composed by two species: *S. piceus* (Laicharting, 1784) described from Austria (Weiherburg, Innsbruck) and *S. kadleci* Rapuzzi et Sama, 2014 described from West Turkey (Sakarya) (Rapuzzi & Sama, 2014). After a revision of the group (Sama & Rapuzzi, 1993; Löbl & Smetana, 2010), *S. piceus* was splitted in three subspecies: the nominal form from Central Europe, Italy, France and northern Balkan peninsula, *S. piceus ganglbaueri* Brancsik, 1886 described from Montenegro (Savina) and widespread in central and southern Balkan peninsula to central Greece and *S. piceus bartolonii* Sama et Rapuzzi, 1993 (Greece, Ossa mountain) known from the eastern mountains of continental Greece (Ossa range and Pilion range) only. The new sub-

species is close, due to its characteristics, to *S. piceus ganglbaueri*. It is very interesting due to its biotope as well. It is the very first population of *Saphanus* that is known from the Adriatic islands. The habitat where it was collected is very dry and hot, completely different from any habitat where all the species of the tribe Saphanini normally live, except for *Oxypleurus* Mulsant, 1839 (Fig. 1).

### **RESULTS**

#### *Systematics*

Ordo COLEOPTERA Linnaeus, 1758  
Familia CERAMBYCIDAE Latreille, 1802  
Subfamilia SPONDYLIDINAE Serville, 1832  
Tribus SAPHANINI Gistel, 1848  
Genus *Saphanus* Serville, 1834  
Species *piceus* (Laicharting, 1784) Serville, 1832

*Saphanus piceus perovici* n. sp. (Figs. 2, 3)

Holotypus male. Croatia, Pag Island, Sveti

Petar, north of Košljun, 44,427270°N 15,038829°E, 11.VII.2015, collected at light, T. Koren legit (coll. T. Koren). Paratypes: 1 male and 1 female, same data as holotype (P. Rapuzzi collection and T. Koren collection).

**DESCRIPTION OF THE HOLOTYPE.** Length 17.5 mm, width 5.5 mm. Color pitchy black, antennae slightly lighter. Head long, deep punctured, with a deep furrow in the middle of the front and between the eyes. The points are big and deep, sometimes fused together. Pubescence made by long erect brownish setae, more concentrated near the eyes and the antennal tubercles. Eyes big, deeply emarginate. Cheeks short. Antennal tubercles prominent, widely separate in the middle. Pronotum as long as wide, constricted toward the base. Lateral sides with a prominent and acute tooth positioned just up to the middle. Pronotum with very regular and deep punctures, with a shining and impunctate line in the middle. Pubescence on pronotum made by semi-erect hairs mainly concentrated close to the lateral sides. Scutellum longer than wide, rounded apically. Very thin punctures with short black recumbent setae. Elytra with parallel sides, rounded apically. The elytral punctation is regular, made by dense, medium-sized punctures with the same density all over the elytra except for the apical fifth where they are lighter and sparser. From each point starts a short, semi-recumbent, dark brown setae. On the disk there are the vestiges of three carina on each elytron that are quite covered by the regular punctation. Legs long and strong. Femora enlarged with a tooth on the inner side of the medium and hind legs. Tibiae arched, strongly in the middle and hind ones. Punctation made by dense points larger and stronger on the tibiae than the femora. The inner side of each tibia shows a sculpture made by many granules that gives a wrinkled appearance. Slender antennae, reaching last fifth of the elytral length. Third segment twice than the second and fourth little shorter than the scape. Segments from the fifth to the tenth with an apical tooth on the outside side, more evident and prominent from the seventh segment to the tenth. Maxillary palps very long, the apical segment axe-shaped.

**VARIABILITY.** The second known male (length 16.0 mm., width 5.0 mm.) is very similar to the type. The color of the legs is a little lighter and the vestiges of the elytral carina are less visible. The fe-

male (Fig. 3), only one female specimen available (length 17.5 mm., width 7.5 mm.), shows the same dimorphism typical of the genus *Saphanus*. The length of antennae is shorter, exceeding the half of the elytral length only with the last segment. The elytral shape is wider, long-oval instead parallel side. The pronotum is more convex and the legs are stouter and shorter.

**DISTRIBUTION AND BIOLOGY.** *Saphanus piceus perovici* n. ssp. was collected by light traps in a very dry area of Pag Island, Croatia (Fig. 1). All the species of the genus *Saphanus* are normally collected in mountain forests, in cold and wet regions. It is very interesting to note that the vegetation of the surroundings where the new subspecies was collected are made by a vegetation made by overgrown karstic grasslands with *Juniperus* bushes. Accordingly, it is very likely that the larva feed on the roots of *Juniperus* sp., the only large plant found in the area.

**ETYMOLOGY.** We dedicate this new subspecies to Mag. Franjo Perović, a former curator of the Natural History Museum in Zagreb (Croatia). He dedicated most of his life to study insects and to collect a rich entomological collection of diverse orders, inspiring many generation of entomologists.

**REMARKS.** *Saphanus piceus perovici* n. ssp. is close to *S. piceus ganglbaueri* due to the stouter shape of the body, the shorter antennae and legs and the absence of evident carina on elytra. A new characteristic distinguish *S. piceus piceus* and *S. piceus ganglbaueri* and it is the ratio between the second and the third and the ratio between the fourth and fifth antennal segments. In the nominal form the third segment is more than three times longer than the second and in the subspecies *S. piceus ganglbaueri* it is little more than two times longer. The fourth segment is similar in length to the fifth in *S. piceus piceus* and evidently shorter in *S. piceus ganglbaueri*. The new subspecies shows the same combinations of *S. piceus ganglbaueri* but the third and the fourth segments are even shorter. Due to this, it is more similar to *S. piceus bartolonii*. It can be distinguished from all the other subspecies of *S. piceus* due to the very regular sculpture on the pronotum, made by regular points. These points are not so regular in all the other subspecies. The shining line on the middle of pronotum is completely missing (or only very thin



Figure 1. The habitat on Pag Island (Croatia) where *Saphanus piceus perovici* n. ssp. was collected. Figure 2. *Saphanus piceus perovici* n. ssp., holotypus. Figure 3. *Saphanus piceus perovici* n. ssp., paratypus female.

and short) in *S. piceus ganglabueri*. The vestiges of the elytral carinas are more evident than in *S. piceus ganglabueri*.

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