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Instructions to Authors

**SCABIOSA LUCIDA VILL. (DIPSACACEAE),
A NEW SPECIES IN THE FLORA OF THE REPUBLIC OF MACEDONIA**

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ABSTRACT: *Scabiosa lucida* is recorded for the first time for the flora of the Republic of Macedonia. Newly discovered population is located on Osogovo Mts, in north-eastern part of the Republic of Macedonia, nearby the border with Bulgaria. This finding confirms also the previous record for the Bulgarian side of the mountain. The species was recently recoded for another border mountain (ridge Kobilica on Šar Planina Mts), also at the other side of the border, this time in Kosovo. *S. lucida* is a mountainous element, distributed in central and southern Europe. The species belongs to the very complex group of *Scabiosa columbaria*. Certain features, like the hairiness of the leaves and the shape of the calyx-setae, in the fruit stage, make clear distinction between this and the other closely related species of the same group.

Keywords: *Scabiosa lucida*, Osogovo Mts., Republic of Macedonia.

1 INTRODUCTION

The research of the genus *Scabiosa*, in the flora of the Republic of Macedonia, is not finished yet. The approximate number of the species, according to the available literature data (Griesebach, 1843; Wettstein, 1892; Degen & Dörfler, 1897; Beck von Managetta, 1904; Adamović, 1905; Dimitrov, 1908; Košanin, 1909; Vandas, 1909; Velenovsky, 1922; Jurišić, 1923; Urumov, 1923; Bornmüller, 1925/26/28, 1927, 1937; Csiki, Javorka & Kümmerle, 1926; Stojanov, 1928; Soška, 1938, 1938/39b, 1939, 1941, 1953; Rechinger, 1939; Petrović, 1941; Černjavski, 1943; Rudski, 1943; Weber, 1951; Micevski, 1952, 1978, 1994; Todorovski, 1954, 1963, 1970; Cirimotić (=Matvejeva), 1958, 1965; Grupče, 1958; Em, 1962; Šmarda, 1968; Drenkovski, 1968; Matevski, 1995; Teofilovski, 2011; Nikolov, 2017), following the system of Jasiewicz (1976), is 18. Beside the already alleged *Scabiosa rhodopensis* Stoj. & Stef., as a Balkan endemic species, with very restricted distribution on the territory of the Republic of Macedonia (Nikolov, 2017), there is another one, from this genus, that also attracts attention. It is *Scabiosa lucida* Vill. which, according to the available literature data, appeared to be new for the flora of the Republic of Macedonia. It is a mountainous element distributed in central and southern Europe (Jasiewicz, 1976; Domina, 2017). On the Balkan Peninsula this species has not yet been recorded in Bosnia and Herzegovina and Greece. *S. lucida* grows on forest clearings, mountain meadows, pastures and rocky places, from montane to alpine zone, at the altitude of (1200) 1500–2700 m.a.s.l. (Grossman, 1975).

2 MATERIALS AND METHODS

Plant material, collected during the field surveys on Osogovo Mts (2002, 2012, 2013 and 2018), is stored in the herbarium of the Macedonian Museum of Natural History (HMMNH). Different literature sources were used for the identification of the material (Prodan, 1961; Diklić, 1973; Grossman, 1975; Jasiewicz, 1976; Petrova, 2012). Photos from the habitat, plant and its different parts were also made. Distribution map is presented, as well (Fig. 2).



Figure 1: *Scabiosa lucida* Vill. - a) species habitat b) flowering plant

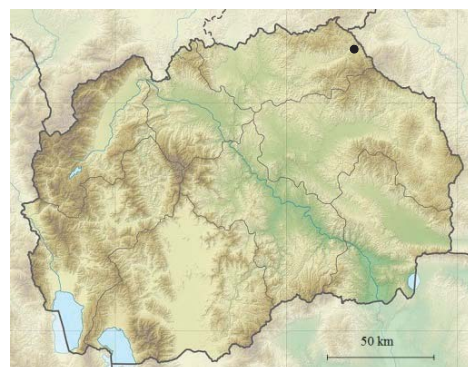


Figure 3: Distribution of *Scabiosa lucida* Vill. in the Republic of Macedonia

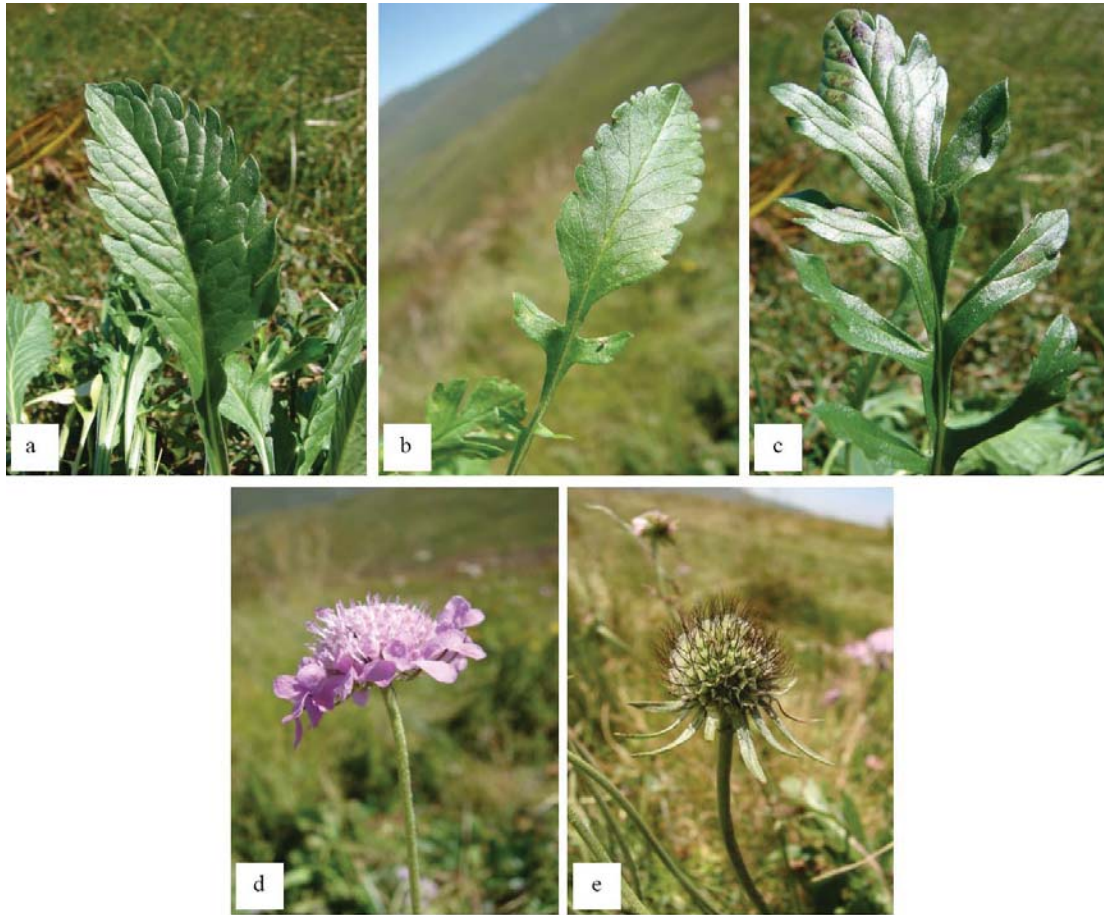


Figure 3: *Scabiosa lucida* Vill. – a,b,c) - basal leaves d) flower e) fruit stage

3 RESULTS AND DISCUSSION

Mk.: Osogovo Mts (Kriva Palanka): mountain pastures above the mine “Toranica”, 1600-2200 m.a.s.l., 18.07.2013 (Leg./Det.: Z. Nikolov).

Very abundant population of this species was observed on the mountain pastures on Osogovo Mts, from above the mine “Toranica” to the very peak of Ruen, near the border with Bulgaria. So far, *S. lucida* is not recorded on the territory of the Republic of Macedonia. However, data about the presence of this species on Osogovo Mts, in general, already existed, for the Bulgarian side of this border mountain (Velenovsky, 1891). So, our new finding is, beyond the importance as a new species for the flora of the Republic of Macedonia, contribution to the distribution area of this species on the Osogovo Mts as well as on the Balkan Peninsula, in general. There is one more recently published record that also deserves attention. In the paper of Duraki, Stanojević & Stojanović (2017), the presence of *S. lucida*, for the Kosovo-side of the ridge Kobilica (Šar Planina Mts) was alleged. However, during our field surveys (2007, 2018) the presence of this species was not confirmed on the Macedonian side of the ridge Kobilica.

Scabiosa lucida belongs to the group of *S. columbaria* (Jasiewicz, 1976) that, contrary to *S. ochroleuca* group with yellow or whitish corolla,

includes taxa with purple or reddish corolla (Fig. 2, d). Within the group of *S. columbaria*, *S. lucida* has stable taxonomic rank through certain characteristics that make clear distinction from the other closely related taxa. For example, from the closest *S. columbaria* L., *S. lucida* differs in the hairiness of the leaves and the shape of the calyx-setae (Grossman, 1975; Jasiewicz, 1976). Namely, the leaves of the *S. lucida* are glabrous or subglabrous and the calyx-setae are distinctly widened at base, in the fruit stage, while the leaves of the *S. columbaria* are usually hispid and the calyx-setae are not widened at base, in the fruit stage.

The plants from the Osogovo Mts match the description given by Diklić (1973), Grossman (1975), Jasiewicz (1976), Petrova (2012). Leaves are more or less glabrous with rare hairs on the margins, on the midrib of the both surfaces of the leaves as well as on some veins on the lower surface (Fig. 4, a-f).

The calyx-setae, contrary to *S. columbaria* (Fig. 5, a), are widened at the base (Fig. 5, b).

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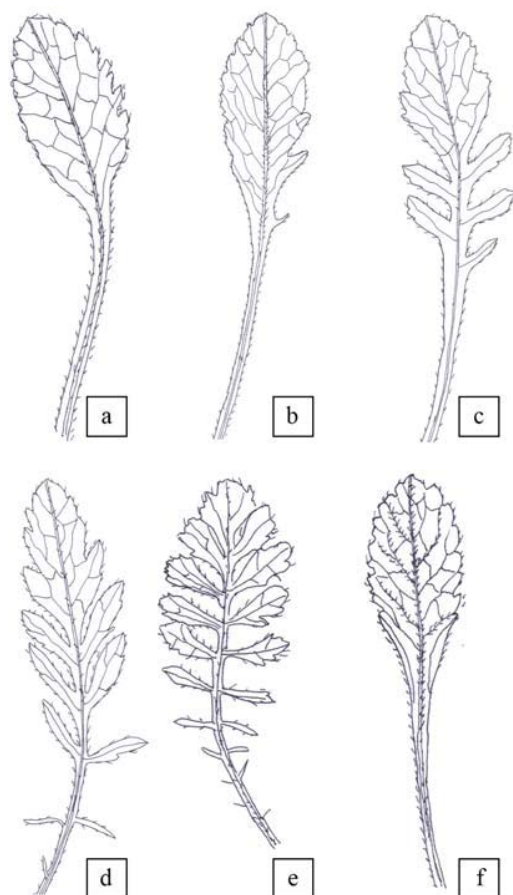


Figure 4: *Scabiosa lucida* Vill. – different forms of basal leaves
 a-e) upper surface f) lower surface

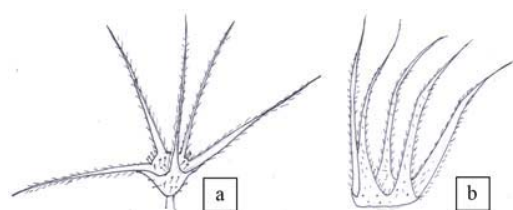


Figure 5: Calyx-setae – a) *Scabiosa columbaria* L. b) *Scabiosa lucida* Vill.

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