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Two New Records for Turkey: *Satureja icarica* P.H. Davis, *Satureja pilosa* Velen

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Abstract: Two *Lamiaceae* species, *Satureja icarica* P.H. Davis collected from Gökçeada (Çanakkale) and *Satureja pilosa* Velen. collected from Kazdağ Mt. (Balıkesir) are new records for Turkey. Short morphological descriptions including illustrations of the species are given.

Key Words: *Lamiaceae*, *Satureja*, New Records, Flora, Turkey.

Türkiye İçin İki Yeni Kayıt: *Satureja icarica* P.H. Davis, *Satureja pilosa* Velen

Özet: *Lamiaceae* familyasına ait iki tür: Gökçeada (Çanakkale)'den toplanan *Satureja icarica* P.H. Davis ile Kazdağ (Balıkesir)'den toplanan *Satureja pilosa* Velen.'nin Türkiye için yeni kayıt olduğu belirlenmiştir. Makalede türlerin ayrıncı morfolojik karakterleri belirtilerek, bitkilere ait çizimlerle desteklenmiştir.

Anahtar Sözcükler: *Lamiaceae*, *Satureja* Yeni Kayıt, Türkiye, Flora.

Introduction

During our continuing studies on the morphology, anatomy, chemistry and biological activity of the Turkish *Labiatae*, we came two new records for Turkey: *S. icarica* P.H. Davis and *S. pilosa* Velen.

The genus *Satureja* L. is represented by 14 species in the "Flora of Turkey and the East Aegean Islands" (1) and its supplement (2) and one of them (*S. icarica* P.H. Davis) is cited from the Aegean Islands but not from the Turkish mainland (1, 2).

In the Flora Europaea and Mountain Flora of Greece (3, 4), *Satureja pilosa* Velen. is recorded from Bulgaria and NE Greece. We collected *Satureja pilosa* for the first time in the Eybek region of Kazdağ mountain. Even though the specimens were somewhat similar to *S. parnassica* Heldr. & Sart. ex Boiss. described in Flora of Turkey (1), we noted some significant differences. Furthermore, *S. icarica* P.H. Davis was previously collected from Ikaria island in Greece. This is the second collection of the species from another locality, that is,

Gökçeada island in the province of Çanakkale. Here we report the occurrence of these two species in the flora of Turkey for the first time. The two specimens are kept at the Herbarium of the Faculty of Pharmacy in Anadolu University, Eskişehir, Turkey (ESSE).

Description

Satureja icarica P.H. Davis in notes R.B.G. Edinb. 38: 51 (1980).

Type: (Greece) Ikaria, Mt. Atheras, 900-1040 m, hard schists, in open heaths 12.vii.1958, Runemark & Snogerup 12460 (holo. LD!).

New Locality: A1 Çanakkale, Gökçeada, Ulukaya hill, in open areas, 550 m, 24.vii.1995, G. Tümen, F. Satil, GT 1014, (ESSE 11958).

Suffrutescent, perennial, cushion-forming, with stout woody stock, 3-4 cm diameter, thicker in its upper parts. Stem 1-3 cm diameter, woody at base, much branched from basal part upwards, terete, glabrous, bark dark

brown, falling off in small pieces. Flowering stem numerous, simple or branched 5-12 (-14) cm, ascending, densely covered with recurved-puberulent hairs. Cauline leaves 5.5-15 x 1.1-3.5 mm, conduplicate, entire, acute to mucronate, cuneate at base; green, densely hirsute, patently scabrid-pubescent to subglabrous, midrib prominent, lateral veins pale, often ciliate, oil dots numerous on both surfaces usually red. Floral leaves sessile, entire, acute to mucronate, cuneate at base; equalling or slightly exceeding calyces. Inflorescence oblong-cylindrical 1-3 cm. Verticillasters 2- flowered,

flowers subsessile. Bracteoles inconspicuous 0.5-2.4 (-3.25) mm, sessile, linear, densely pubescent, scabrid. Calyx (2-) 2.5-3 mm, campanulate, actinomorphic, sutural veins not prominent, glandular-punctate, hirsute, teeth lanceolate-subulate, slightly shorter than tube accrescent in fruit. Corolla white, with violet or purple markings on lower lip, bilabiate, 6-8 mm, densely white-tomentose outside, tube not exerted from calyx. Stamens included, anthers purple, filaments white (2-) 2.5-6 m. Nut oblong, obtuse, 2.0-2.2 x 1.2-1.4 mm, puberulent, dark brown (Figure 1).



Figure 1. A. Plant. *Satureja icarica* P.H. Davis.



Figure 2. A. Plant. *Satureja pilosa* Velen.

According to P.H. Davis *S. icarica* is close to *S. cuneifolia* Ten. and *S. montana* L. var. *hellenica* Heldr. But it differs from *S. cuneifolia* Ten. by its cushion-forming habit and in possessing flowering stem less than 14 cm, cauline leaves 5.5-15 x 1.1-3.5 mm, usually sparsely hispid; calyx actinomorphic, sutural veins not prominent, corolla white with purple markings on lower lip, and from *S. montana* var. *hellenica* Heldr. in having unbranched stems, shorter inflorescence and slightly larger calyces (1).

Satureja pilosa Velen. Sitzungsber. Königl. Böhm. Ges. Wiss. Prag, Math.-Naturwiss. cl. 1899 (40): 6 (1899).

Type: Described from Bulgaria (3).

New Locality: B1 Balıkesir; Kazdağ, Eybek hill, open areas 1400 m, 8.7.1993, G. Tümen, GT 1050, (ESSE 10986).

Small shrub, 10-25 cm long. Root with stout woody stock, 2-4 cm diameter, thicker in upper parts. Stem 0.8-

2.75 cm diameter. Woody and much branched at base, cylindrical, glabrous; bark dark brown, falling off in small pieces. Flowering stems numerous, 8-15 cm, ascending, densely patent pilose all round, hairs 0.2-0.6 (-2) mm. Cauline leaves 7-21 x 2-6 mm; entire, acute to acuminate, cuneate at base; greenish above, weakly scabrid-hirsute, densely pilose, glandular-punctate beneath. Floral leaves sessile, spatulate-oblongate. Verticillasters scarcely crowded, forming a slender, spike-like inflorescence. Bracteoles 0.5-2.5 mm, densely patent-pilose. Calyx greenish-grey, (4-) 4.5-5 (-5.5) mm, tubulate, slightly bilabiate, sutural veins not prominent, glandular-punctate, hirsute, accrescent in fruit, teeth subequal, linear-lanceolate, slightly shorter than tube. Corolla 6-8 mm, white or light lilac with purple markings on lower lip, densely white-tomentose outside, tube not exerted from calyx. Stamens included, anther purple-brown, filaments white (1.4-) 2.6 mm. Nuts oblong, obtuse, 1.5 x 0.8-1.2 mm, puberulent, dark brown (Figure 2).

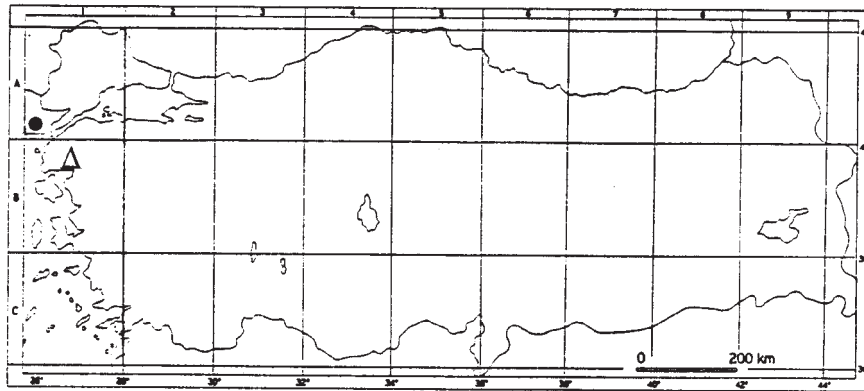


Figure 3. Distribution of *Satureja icarica* P.H. Davis (●) and *Satureja pilosa* Velen (Δ).

Satureja pilosa is similar to *S. parnassica* Heldr. & Sart. ex Boiss. given in *Flora Europaea* (3), but it differs in having flowering stems up to 25 cm; cauline leaves 10-20 x 3-8 mm, usually scarcely hispid; calyx 4-5.5 mm, teeth slightly shorter than tube, corolla 6-8 mm.

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