

A New Record for Turkey from East Anatolia: *Alyssum heterotrichum* Boiss.

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Abstract: *Alyssum heterotrichum* Boiss. (*Brassicaceae*) from east Anatolia (B9 Van) is a new record for the flora of Turkey.

Key Words: *Alyssum heterotrichum*, *Brassicaceae*, new record, flora of Turkey

Doğu Anadolu'dan Türkiye Florası İçin Yeni Bir Kayıt: *Alyssum heterotrichum* Boiss.

Özet: *Alyssum heterotrichum* Boiss. (*Brassicaceae*) Doğu Anadolu (B9 Van) bölgesinden toplanan örneklerle Türkiye Florasına kayıt edilmiştir.

Anahtar Sözcükler: *Alyssum heterotrichum*, *Brassicaceae*, yeni kayıt, Türkiye Florası.

Introduction

During field studies carried out on Başet Mountain (Gürpınar, Van) in 2001 the first author collected some unrecognised *Alyssum* L. specimens. They were later identified as *A. heterotrichum* Boiss. using the account in Flora Iranica (Dudley, 1968). A review of the literature (Dudley, 1965a-b; Davis et al., 1988; Güner et al., 2000) revealed that this species had not previously been recorded from Turkey.

Alyssum heterotrichum Boiss., Diagn. Pl. Or. Nov. Ser. 1, 6: 15 (1845). (Figure 1).

Syn.: *A. bungei* Boiss., Fl. Or. 1: 274 (1867).

A. betpakdalense Rubtz., Bull. Mosk. Obshch. Isp. Pr. Biol. 52 (2): 87 (1947).

Type: Iran and muros hortorum prope ruines Persepolis, 11 Apr. 1842, Kotschy 224, holotype G; isotypes: BM, E, K, OXF, W.

Annual, erect or ascending, rarely prostrate, 4-7(-10) cm. Indumentum of stellate hairs (except fruits). Leaves oblanceolate-spathulate, flat, decreasing in size upwards.

Racemes 2-4 cm, dense. Pedicels spreading to ascending, 1.5-2 mm. Sepals 1 x 0.5 mm obtuse, indumentum ± dense, ± persistent. Petals obovate-emarginate, 1-1.1 x 0.3 mm. Long filaments 1-1.5 mm, unilaterally dentate 0.5 mm; short filaments 0.7-1(-1.5) mm with deeply bifid and basal connate appendages, 1/2 as long as filaments. Siliculae elliptic-obovate, acute-attenuate, 4.5 x 2.5 mm, loculi 2-3 ovulate; valves densely papillose and simple, slender, and only slightly tuberculate setae (0.1-0.4 mm). Styles 0.6 mm, glabrous. Seed wings 0.2-0.3 mm wide. Fl. and Fr. May-June. Steppe, mountain slopes, 2300-2700 m.

B9, Van: Gürpınar, south slopes of Başet Mountain and around Koçgüden village, 2300 – 2700 m, 27 v 2001, 07 vi 2001 M.Ünal (MÜ 4935, MÜ 6459).

The specimens are deposited at VANF.

Discussion

Alyssum heterotrichum has a wide range of distribution including Iran, which is very close to the

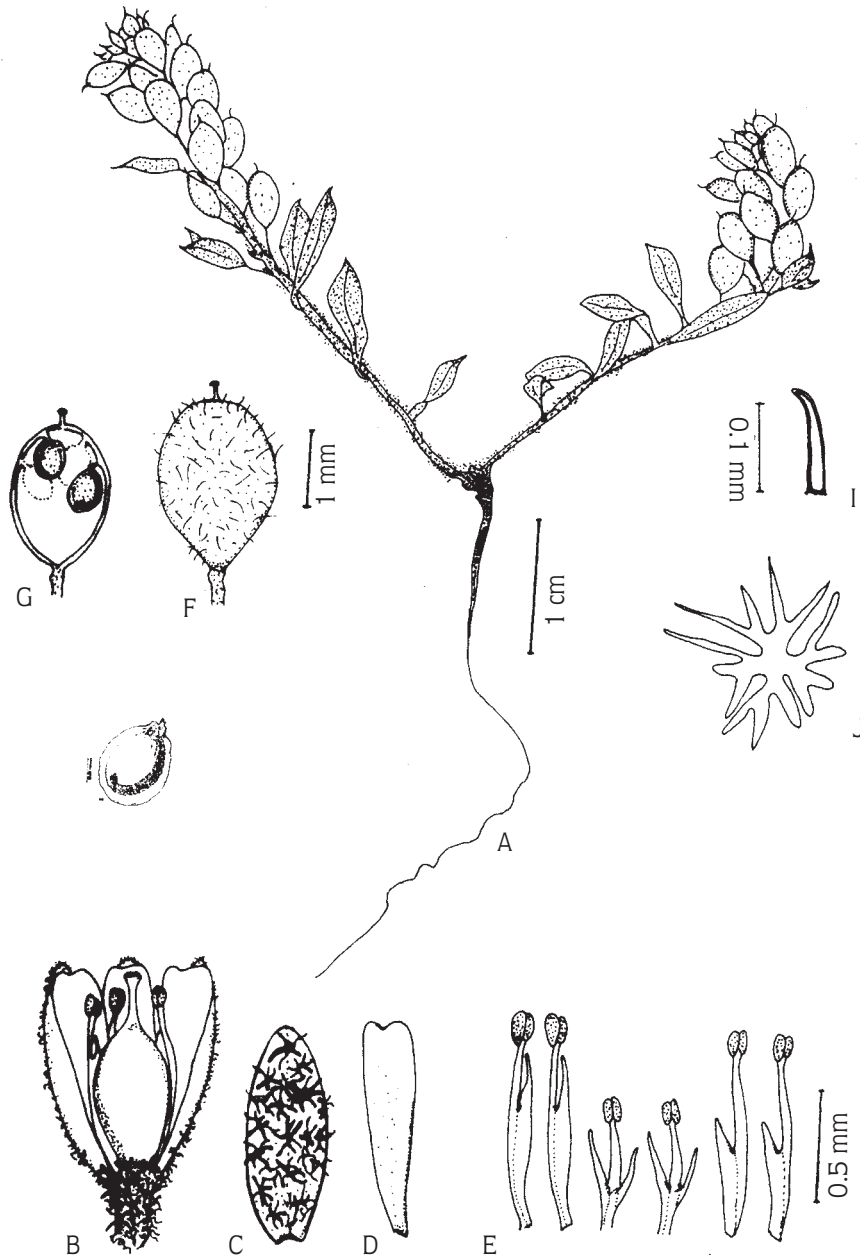


Figure 1. *Alyssum heterotrichum* Boiss. A. habit; B. flower; C. sepal; D. petal; E. short and long stamens; F. fruit; G. placentation; H. seed; I. hair in fruit; J. hair in plant (except fruit).

eastern border of Turkey where the city of Van is located. It is also found in Central Asia (Afghanistan, Turkmenistan, Kazakhstan, Pakistan). Its occurrence in south-east Turkey is therefore not surprising.

The fruits of *A. heterotrichum* have a different indumentum from other parts of the plant. The fruit has

Characters	<i>A. heterotrichum</i> .	<i>A. huetii</i>
Leaves	7-25 x 1-4 mm	(8)30-40 x (0.5)2-3 mm
Pedicle (length)	1.5-2 mm	4-6 mm
Petals (length)	1-1.1 x 0.3 mm	(-)3-4 x 1 mm
Siliculae	4.5 x 2.5 mm	4.5-6.5 x 3-3.5 mm

simple hairs, whereas other parts have an indumentum of stellate hairs. The closest species to *A. heterotrichum* among Turkish *Alyssum* is *A. huetii*. It differs from *A. huetii* as indicated below:

The number of species of *Alyssum* L. in Turkey (Dudley, 1965a-b; Davis. et al., 1988; Güner et al., 2000) now reaches 94 with the addition of *Alyssum heterotrichum*.

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