

TWO NEW ALLIUM SPECIES FROM TURKEY

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ABSTRACT. *Allium eldivanense* N. Özhatay and *A. ilgazense* N. Özhatay are described from Turkey and their chromosome numbers are reported, as $2n = 16$.

***Allium eldivanense* N. Özhatay, sp. nov.** (sect. *Allium*). Fig. 1.

Affine *A. styloso* O. Schwarz et *A. sphaerocephalo* L. a priori differt filamentis perigonis longe exsertis et perigonio roseo-purpureo; a posteriore differt filamentis interioribus cuspidis media cuspidibus lateralibus brevior, stylo conspicue exserto.

Bulbus 1-1.5 cm diam., ovoideus; tunicae membranaceae, exteriores pallide brunneae, interiores albae. Scapus (20-)25-30(-35) cm, ± erectus vel valde flexuosus et basi vel parte superiore purpurascens. Folia 2-3, 1-2 mm lata, complanata, fistulosa vel canaliculata, margine laevia, vaginae ± costatae. Spatha bi- vel triloba, rostro brevi, persistens. Umbella 1.5-2.5 cm diam., globosa, multiflora, densa; pedicelli inaequales perigonio aequilongi vel eo usque ad 3-plo longiores, basi non bracteolati. Perigonium ovoideum-campanulatum, roseo-purpureum nervo medio viridi vel atro-purpureo; segmenta exteriora 4 × 2 mm, ovata cymbiformia, parte superiore secus carinam et margines purpurea et verrucosa-scabra, subacuta, interiora 5 × 2.5 mm, oblonga-lanceolata, truncata vel emarginata, laevia. Filamenta albida vel purpurea, perigonis 1.5-plo longiora, filamenta exteriora simplicia, subulata; interiora tricuspidata; cuspis media ½ cuspidibus lateralibus et lamina indivisa brevior; antherae 2 mm, purpureae. Ovarium laeve, ellipsoideum, stylus 4-5 mm, exsertus, persistens. Capsula 3-4 mm, ovoidea, valvis emarginatis, perigonio inclusa. $2n = 16$. Fl. Jul.

Type. Turkey. A4 Çankiri: Eldivan dağı, above Bakirli, 18 vii 1976, A. & T. Baytop (holo. ISTE 35244); this specimen was cited in *Fl. Turkey* 8:180 (1984) as *Allium stylosum* O. Schwarz.

N ANATOLIA. A4 Çankiri: Eldivan dağı, above Bakirli, 10 vii 1984, 1850 m, N. & E. Özhatay & G. Saryar (ISTE 54838).

Endemic. Euxine element. Stony, rocky dry and open places, c.1800 m.

Among species of sect. *Allium* with fistular leaves, this new species is distinct with its curved scape, persistent spathe, dense and many-flowered umbel, truncate and emarginate inner perianth segments, conspicuously exserted filaments and long and persistent style.

***Allium ilgazense* N. Özhatay, sp. nov.** (sect. *Allium*). Fig. 2.

Affine *A. jubato* Macbride et *A. heldreichii* Boiss. a priori differt perigonii segmentorum magnitudine, scabritudine, colore; a posteriore differt filamentis longioribus, antherarum colore.

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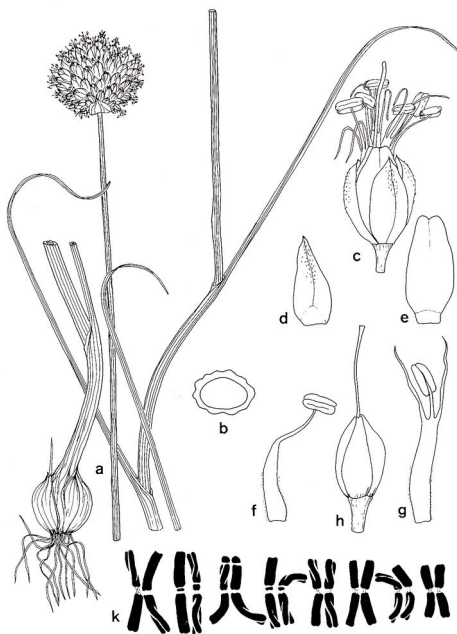


FIG. 1. *Allium eldivanense*: a, habit, $\times 1$; b, T.S. of leaf, $\times 15$; c, flower; d, outer segment; e, inner segment; f, outer stamen; g, inner stamen; h, pistil; c-h, approx. $\times 6$; k, karyotype, $\times 1250$.

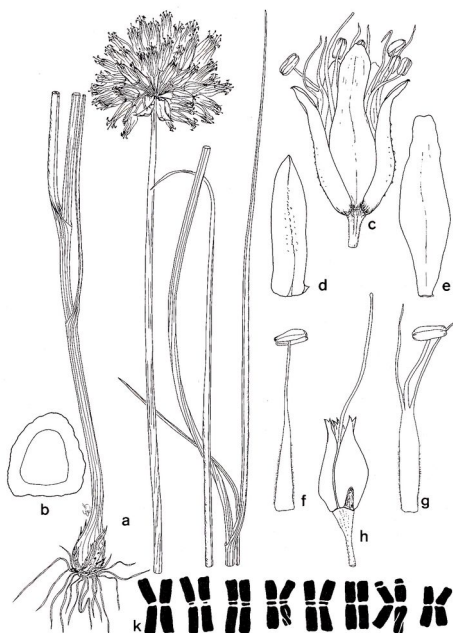


FIG. 2. *Allium ilgazense*: a, habit, $\times 1$; b, T.S. of leaf, $\times 15$; c, flower; d, outer segment; e, inner segment; f, outer stamen; g, inner stamen; h, pistil; c-h, approx. $\times 6$; k, karyotype, $\times 1250$.

Bulbus 0.5–1 cm diam., ovoideus; tunicae membranaceae, exteriores nigrae, interiore albae. *Scapus* (25–)30–45(–50) cm, erectus, et basi vel parte superiore purpurascens. *Folia* 2–4, 2–3 mm lata, semiteretia, fistulosa, scapo breviora. *Spatha* bi- vel triloba, valvae 10 mm, ovatae, acutae, persistentes. *Umbella* 2–3.5 cm diam., globosa, multiflora; pedicelli 5–15 mm, parte superiore tuberculati, subaequales, basi bracteolis albis membranaceis provisi. *Perigonium* campanulatum, roseum basi pallide roseum vel album, perigonii segmenta exteriora 6.5–8 mm, quam interiora breviora, ovato-oblonga, cymbiformia, subacuta, secus carinam verrucosa-scabra; interiora 8–9.5 mm, lanceolata, truncata vel emarginata. *Filamenta* paulo exserta, basi ciliata, cuspis media cuspidibus lateralibus et lamina indivisa subaequilonga, antherae purpurascens. *Ovarium* ovoideum, ad apicem emarginatum; stylus exsertus. *Capsula* 4–5 mm, ovoidea, valvis ovatis, ad apicem bifidis, perigonio inclusa. $2n = 16$. *Fl.* Jul.–Aug.

Type: Turkey. A4 Kastamonu: Ilgaz Da., SW of Geyik gedigi, 2000 m, rocky places, 29 vii 1983, N. & E. Özhatay (holo. ISTE 51918).

N ANATOLIA. A4 Kastamonu: Ilgaz Da., Çatak river, dist. Diberek, forest of *Abies nordmanniana* and *Pinus sylvestris*, 1450 m, 27 vii 1982, Akman, Yurdakul & Demirörs (ANK 12786). Ilgaz Da., Küçük Haşet tepesi, alpine vegetation, calcareous soil, c. 2000 m, 20 vii 1981, Akman, Yurdakul & Demirörs (ANK ?).

Endemic. Euxine element. Forests of *Abies nordmanniana*, *Pinus nigra* and *P. sylvestris*, rocky places, alpine vegetation or calcareous soil, 1450–2000 m.

This new species is very distinct with fistular leaves, pinkish purple and c.8 mm long perianth segments and nearly exserted filaments.

ACKNOWLEDGEMENTS

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