

Two new *Allium* L. species from the Fergan depression (Central Asia)

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Abstract: *Allium scharobitdinii* F. O. KHASS. & TOJIBAEV (sect. *Caerulea* (OMELCZ.) F. O. KHASS.) and *A. chorkessaricum* F. O. KHASS. & TOJIBAEV (sect. *Campanulata* KAMELIN) are newly described. Their relationships to other Western-Tian-Shanian and Afghan-Pamir-Alain species are discussed.

Zusammenfassung: *Allium scharobitdinii* F. O. KHASS. & TOJIBAEV (sect. *Caerulea* (OMELCZ.) F. O. KHASS.) und *A. chorkessaricum* F. O. KHASS. & TOJIBAEV (sect. *Campanulata* KAMELIN) werden neu beschrieben und ihre Verwandtschaftsbeziehungen zu anderen Arten der westlichen Tian Shan und Afghanischen Pamir Alai Region diskutiert.

Key words: Taxonomy, *Allium*, Central Asia, description.

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Introduction

During the botanical collecting mission of the area of Kurama mountainous ridge in 2009, two more new *Allium* taxa were found in the subalpine zone. Thus, additionally to the recently described (FRITSCH 1998) new 4 *Alliums* (*A. haneltii* F. O. KHASS. et R. M. FRITSCH, *A. kuramense* F. O. KHASS. et N. FRIESEN, *A. orunbaiti* F. O. KHASS. et R. M. FRITSCH, *A. michaelis* F. O. KHASS. & TOJIBAEV) the descriptions of two more new species are given below.

New descriptions

Allium scharobitdinii F. O. Khass. & Tojibaev sp. nov. (sect. *Caerulea* (Omelcz.) F. O. Khass.)

Bulbus solitarius ovatus 10-15 mm altus, 5-10 mm latus; tunicae exteriores papyraceae, cinereo-nigrescens. Bulbulae violaceae ovoidea ca 1 cm lg. Caulis teres glaber striatus 15-30 cm alt. Folia in numero 2-4, 1-2 mm lata semeteretia scabrida. Spatha caduca pedicellis pluries breviora. Umbrella hemisphaerica laxa. Pedicelli subaequilongi 10-18 mm longi, basi ebracteolati. Perigonium campanulatum albidum, nervis viridibus. Tepala elliptico-ovata subacuta, 4-4,5 mm longa. Filamenta albida tepalis longiora, exteriora anguste-triangularia; interiora basi late triangulari, ad ca 2/3 partis liberae utrinque denticulo distincto provisa. Antherae violaceae. Capsula ignota.

Differt ab *A. caesioides* WENDELBO filamentis existentis, bulbulis violaceis (nec nullis).

Habitat ad montium Kuramense (Asia Media Tian-Shan Occidentalis).

Typus: Tien-Shan Occidentalis, montes Kuramensis, prope pagum Chadak, N 41°06'51.7" E 70°36' 57.4", 2169 msm, 28.06.2009, Tojibaev (TASH, isotypus LI).

Etymology: Species in honorem Dr. Scharobitdin Tojibaev Namanganensis denominata est.

Bulb solitary, ovate 10-15 mm long, 5-10 mm wide, outer tunics papery, blackish. Bulblets violet ovate, about 1 cm long. Scape smooth, straight 15-30 cm long. Leaves 2-4, 1-2 mm thick, nearly terete, smooth, coarse. Spathe shorter than pedicels, deciduous. Inflorescence semiglobose, lax. Pedicels nearly equal, 10-18 mm long, with basal bracts. Flower cup shaped, whitish with green nerve. Tepals elliptic ovate obtuse, 4-4,5 mm nearly acute. Filaments whitish, longer than tepals, outer ones simple narrow triangular, inner ones wide triangular with small lateral cusps at 2/3 of the filament. Anthers violet. Capsule unknown.

Allium chorkessaricum F. O. Khass. & Tojibaev sp. nov. (sect. *Campanulata* Kamelin)

Bulbi gregari conico-cylindrici, 5-15 mm alti, 5-10 mm crassi; tunicis brunneis vel rufescenti brunneis reticulate fibrosis tecti. Caules graciles, laevis, 15-30 cm alti, basi vaginis foliorum scabridis involuti. Folia in numero 2-4, canaliculata, ca 1 mm lata, glabra. Spatha persistentia, rostrata, bipartita, quam umbella sesque breviora. Umbrella hemisphaerica, plurifolia. Pedicelli subaequilongi, 8-12 mm longi, ebracteolati. Perigonii anguste campanulati phylla rosea, nervo intensiore violaceo percursa, 3,5-4,5 mm longa, declinata, acuta. Filamenta simplicia, perigonio manifeste longiora, basi inter se ut cum perigonio connata, rosea. Antherae violaceae. Stylus longe exsertus. Ovarium globosum purpureum. Capsula globosa vix perigonio breviora.



Fig. 1: Bulb and bulblet of *A. scharobitdinii* sp. nov.



Fig. 2: Inflorescence of *A. scharobitdinii* sp. nov.



Fig. 3: Inflorescence of *A. chorkessaricum* sp. nov.

Differt ab *A. tenuicaule* VVED. filamentis existentis.

Habitat ad montium Kuramense (Asia Media Tian-Shan Occidentalis).

Typus: Tien-Shan Occidentalis, montes Kuramensis, Parda Tursun fl., N 41°07'13.9", E 70°48'24.0", 2900 msm, 28.06.2009, Tojibaev (TASH, isotypus LI).

Bulbs several, cylindrical, 5-15 mm long, 5-10 mm wide, tunics brownish, reticulate-fibrose. Scape 15-30 cm, smooth, lower part covered by slightly scabrid leaf sheaths. Leaves 2-4, ca. 1 mm wide, glabrous. Spathe bipartite, shorter than inflorescence. Inflorescence hemispherical, many flowered. Pedicels equal, 6-10 mm long, without bracts. Tepals campanulate, pink, with purple mid vein, 3,5-4,5 mm long, sharp. Filaments long exerted simple, basally connate with tepals, pink. Anthers purple. Style long exerted. Ovary globose, purple. Capsule globose, shorter than flowers.

Discussion

Allium scharobitdinii is close to the Afghanian species *A. caesioides* by its exerted filaments (WENDELBO 1971; Fig. 1), but it can easily be identified by its deciduous spathe, as well as the violet bulblets (Fig. 2). On the other hand *A. scharobitdinii* is rather close to the incomprehensible Tien-Shanian taxon *A. renardii* REGEL, previously treated by VVEDENSKY & KOVALEVSKAYA (1971) as a synonym of *A. caesium* SCHRENK, but the tepals and filaments of the last two species are rather identical. Moreover, all species of sect. *Caerulea* can be characterized by their de-

ciduous spathe and *A. caeruleum* PALL. normally has several bulblets, as well as exerted filaments like *A. scharobitdinii*.

The second new species *A. chorkessaricum* can be allied to *A. tenuicaule* REGEL, having long exerted filaments (Fig. 3).

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