TWO NEW RECORDS OF CYPERACEAE FAMILY FROM IRAN

M. Amini Rad


Carex kukkonenii and Bolboschoenus glaucus are reported as new records from Iran, including Tehran and Gilan provinces. Geographical distributions are discussed and localities are presented.

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غیاش دو گونه جدید از تیره
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بی عنوان گونه‌های جدید برای
ایران از استان‌های تهران و گیلان گزارش داده می‌شوند. همچنین محل جمع آوری گونه‌ها در
ایران و پراکنش آنها در دنیای ارائه می‌شود.
Introduction
The author has been working on *Cyperaceae* since some years ago. Among the plants collected from Tehran and Gilan provinces, *Carex kukkonenii* and *Bolboschoenus glaucus* are introduced as new records from Iran.

**Carex kukkonenii** Ö. Nilsson
Tehran: 2km from Shemshak to Tehran (2260m), 13.7.2002, Amini Rad & Eskandari (34459-IRAN).
Perennial. Rhizome short. Stem straight, sharply trigonous, scabrous along edges. Leaves ca.1/3 stem length. Inflorescence of 1-3 spikes, all overlapping, terminal, mostly gynoecandrous, lowest occasionally slightly remote, with peduncle to 20 mm. Bracts as long as inflorescence, sheath-less. Spikes globular, blackish-brown. Utricles 3.7-4.5 mm long, broad ellipsoid, flat, beak 0.4-0.5 mm long, ostiole with two short teeth. Stigmata 3. Nut 1.8-2.2 mm long, trigonous, yellowish to light brown (Fig. 1).

This species is similar to *C. caucasica* Stev. for having gynoecandrous terminal spike but the differences is that, in *C. kukkonenii*, utricles and glumes are not papillose, whereas in *C. caucasica*, utricles and glumes are papillose.

**General distribution.** E. Turkey, N. Iraq. and N. Iran.

**Bolboschoenus glaucus** (Lam.) S. G. Smith
Perennial. Stem sharply trigonous. Leaves as long as stem or longer. Inflorescence up to 25 mm long, small multiple spike of 1-4 spikes; lowest bract longer than inflorescence. Spikes ovoid or globular. Glumes 4-6 mm, cymbiform, trifid, eroded, scariosus, arista to 1.5 mm long. Perianth bristles 4-6, half of the nut, persistent. Stigmata 3. Nut 2.5-3 mm long, obovoid, plano-convex, brown to dark brown, apex conical (Fig. 2).

This species was already reported from Pakistan in the Flora Iranica (Kukkonen 1998) which is similar to *B. maritimus* (L.) Palla. The best characters for identification are seen in the transverse section of the fruit. The epiderm cells of *B. maritimus* are much deeper than wide (2-3 times) while in *B. glaucus* they are almost square.

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Reference
Fig. 1. *Carex kukkonenii.*
Fig. 2. *Bolboschoenus glaucus*; achene; transverse section of achene.