

NEW RECORDS AND INTERESTING SPECIES OF CYPERACEAE FAMILY FROM IRAN

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Revising the specimens of *Cyperaceae* family in Iran, *Carex michelii*, *Pycneus sanguinolentus* as new records for the flora of Iran, and *C. tomentosa* as an interesting species are reported.

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Key words. Carex, Pycneus, *Cyperaceae*, Iran

گزارش گونه‌های جدید و جالب از تیره اویارسلام برای ایران

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گونه‌های *Carex michelii* و *Pycneus sanguinolentus* به‌عنوان گونه‌های جدید و گونه *Carex tomentosa* به‌عنوان جمع‌آوری جدید از ایران گزارش داده می‌شوند.

Introduction

Revising the specimens of *Cyperaceae* family in TARI Herbarium, *Pycreus sanguinolentus* is introduced as a new record for Iran. In addition, during my trip to Arasbaran protected area, specimens of the genus *Carex* was collected which *C. michelii* as a new record of the Iranian plateau and *C. tomentosa* as an interesting species are reported.

Pycreus sanguinolentus (Vahl) Nees

Gilan: Siah-Keshim wetland, 18.10.1994, Eftekhari (78362-TARI).

Perennial. Stem base in older plants decumbent and with rooting internodes. Inflorescence one single digitate, or with 2 primary branches to 25 mm; bracts 4, foliose, spreading; spikes 12×2.5 mm, with 12-18 glumes; rachis 0.5 mm, quadrangular; glume base leaves scarious present on both sides; glumes c. 2.5 mm, cymbiform, mid-nerve area yellow brown, both sides with wide reddish marginal zones, sides with 1-2 nerves. Stamens 3, stigmas 3. Nut 1.3×1 mm, biconvex, obovoid, brown to dark brown, papillate (Fig. 1).

General distribution. NE Turkey, Talish, Afghanistan, Pakistan, Caucasus, Japan and Malaysia; NW India, Tadjikistan, N to Kazakhstan, China, N Iran.

Carex michelii Host

Azerbaijan: Arasbaran, Serahi-e Balan to Kalale Olia, 24.6.2003, Amini Rad & Tehrani (35603-IRAN); Arasbaran, Khodafarin, Serahi-e Vayghan, 1300 m., 27.6.2003, Amini Rad & Tehrani (35604-IRAN).

Rhizomatous perennial. Inflorescence of 1 male spike and 1-2 female spikes below, pedunculate, remote. Bracts shorter than inflorescence. Male spikes club-shaped. Female spikes cylindrical, lax; female glumes 6-8×2-2.5 mm; utricles 6-7×2-2.5 mm, tightly surrounding the nut, nerved, sparsely

puberulent, beak 2-3 mm, ostiole deeply bidentate. Nut ellipsoid, obtusely trigonous (Fig. 2).

C. michelii is reported for the first time from Flora Iranica area (Kukhonen 1998). This species is very similar to *C. depauperata* Curtis but the most important differences is that, in *C. michelii*, beak of utricles is deeply bidentate and bracts are shorter than inflorescence, whereas in *C. depauperata*, beak is oblique and bracts are longer than inflorescence.

General distribution. From C. France and the Leningrad region south-wards to Italy, Turkey, NW Iran.

Carex tomentosa L.

Azerbaijan: Arasbaran, Khodafarin, Serahi-e Vayghan, 1300 m., 27.6.2003, Amini Rad & Tehrani (35559-IRAN).

Perennial. Stem papillose. Leaves shorter than stem, papillose below. Inflorescence of 1 male and 2-3 female spikes below. Utricles obovoid, strigose, ostiole bidentate.

C. tomentosa is similar to *C. grioletii* Roemer for having female spikes globose and utricles strigose but the differences is that, *C. tomentosa* has bracts shorter than inflorescence and utricles strigose all over, whereas in *C. grioletii*, bracts are equaling or longer than inflorescence and utricles are variously strigose.

In Flora Iranica (Kukhonen 1998), only a specimen reported from Azerbaijan (Bothmer & Buttler) which was not seen in reviewing herbaria. In addition, Assadi (1988), did not report the species in Plants of Arasbaran protected area, NW. Iran.

General distribution. Talish, NW Iran; from W Europe to Central Siberia.

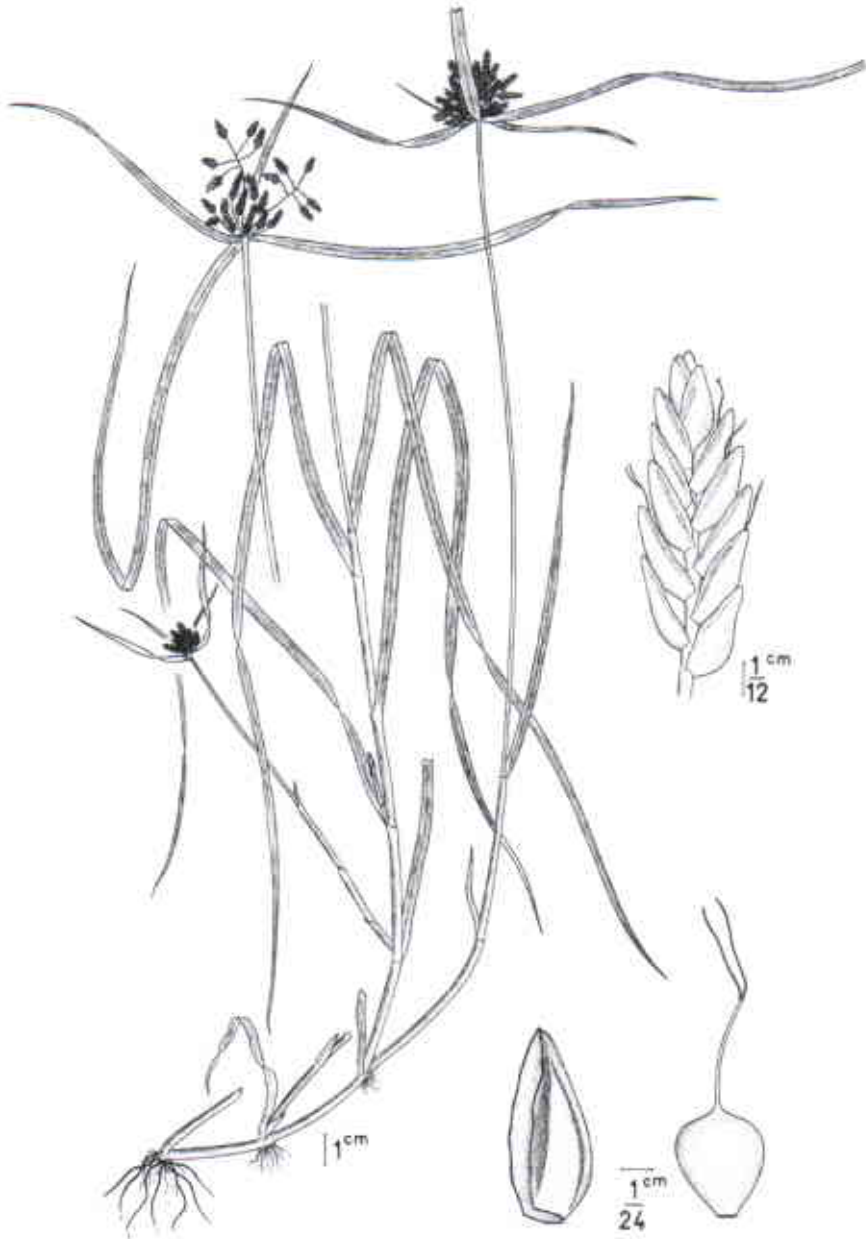


Fig. 1. *Pycreus sanguinolentus*.

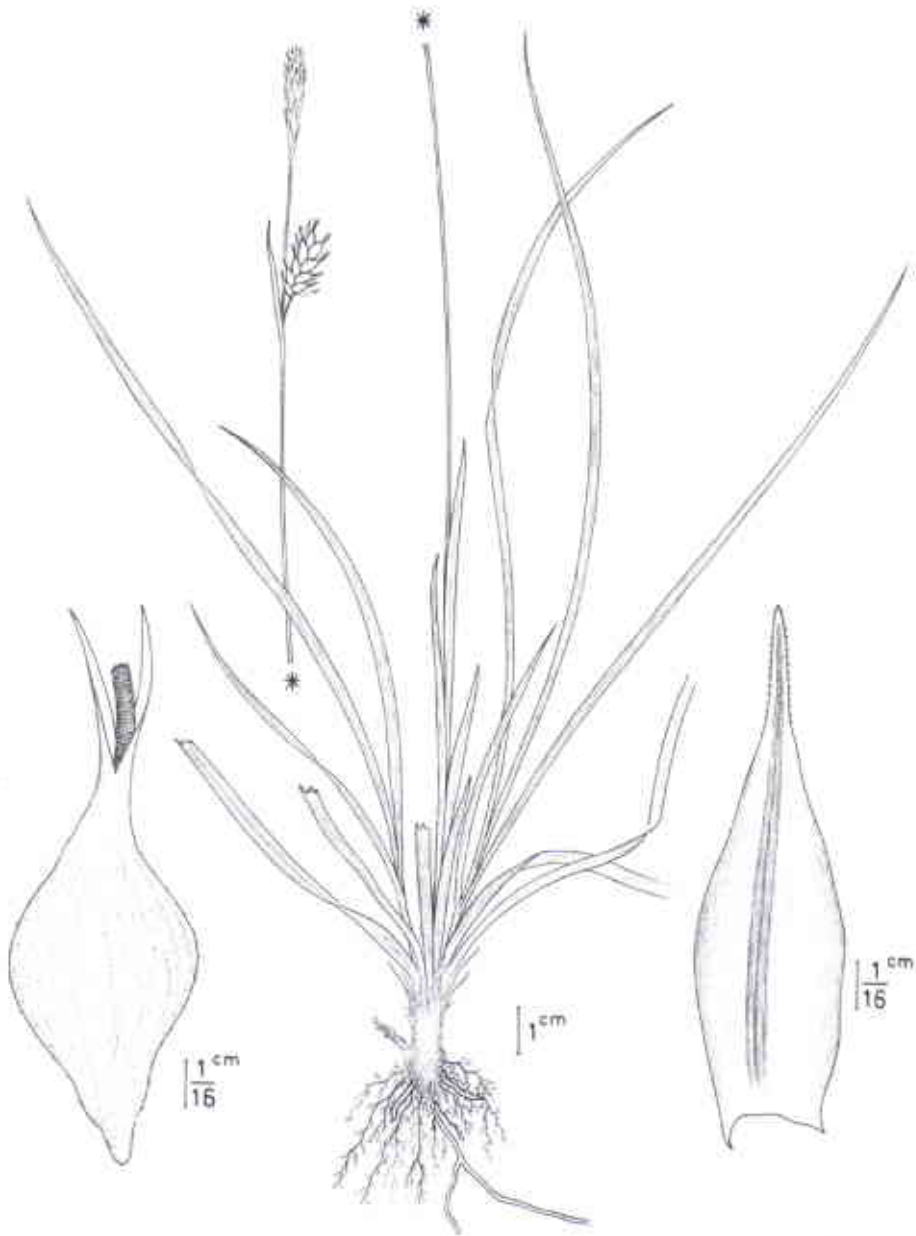


Fig. 2. *Carex michelii*.

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