CEPHALORRHYNCHUS TUBEROSUS (ASTERACEAE), A NEW RECORD FOR THE FLORA OF IRAN

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Cephalorrhynchus tuberosus is reported for the first time from Iran. It has been collected from East Azarbaijan province and is distinguished from its related species, C. rechingerianus, by pappus characteristics.

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گزارش گونه Cephalorrhynchus tuberosus برای اولین بار از ایران زهرا توکلی و مصطفی اسدی

گونه Cephalorrhynchus tuberosus به عنوان گزارش جدیدی از ایران معرفی می گردد. این گونه از نظر طول پاپوس و داشتن پاپوس های زبر از گونه نزدیک خود C. rechingerianus قابل تشخیص است. این گونه از آذربایجان شرقی بین اهر و تبریز جمع آوری شده است. کلید شنا سایی برای گونه های Cephalorrhynchus موجود در ایران ارائه شده است.

INTRODUCTION

During the study of herbarium specimens in TARI, FAR, and TUH herbaria for the preparation of Flora of Iran treatment (Assadi 1989), one specimen was determined as *Cephalorrhynchus tuberosus* (Stev.) Schchian by the authors, which is reported for the first time for the flora of Iran here. *Cephalorrhynchus* was included by 7 species in Flora Iranica from Iran (Rechinger 1977). An identification key for the all Iranian species is presented here.

Cephalorrhynchus tuberosus (Stev.) Schchian in Zam. Sist. Geogr. Rast. 23: 99 (1963).

Specimen seen. Azarbaijan: pass ca. 20 km. S. of Ahar on road to Tabriz, 1700-1800, Wendelbo & Assadi 27909.

Plant perennial with tuberose rhizome. Stem ca. 43 cm high; with rather dense to dense glandular hairs, scanty at base. Leaves herbaceous, green, glabrous; pinnatipartite to entire above, auriculate to semiamplexicaule at base. Synflorescence paniculate-corymbose, with 5-10 capitules; peduncules shorter

than involucre, with dense glandular hairs. Involucre 9.5-13 mm long, cylindrical; involucral bracts in three rows, 16 in number. Ligules yellow, sometimes blue in drying stage, 15-16mm long, hairy. Achenes fusiform. Pappus white, inner 5-6mm long, weakly scabrous, outer to 0.2mm long.

In Flora of the USSR, vol. 29 (Kirpichnikov 1964) the species without indication of the regions or mentioned of any specimen was recorded from Iran in its general distribution.

The species is distributed in Turkey, Balkans, Crime, Caucasus, Syria, Lebanon, and Cyprus. The closest locality to the locality of the Iranian gathering is in the Caucasus.

Identification key for the Iranian species of the genus Cephalorrhynchus

- 1- Achenes fusiform or almost fusiform, including beak 6-13 mm long 2
- -Achenes not fusiform, including beak 3.3-5.3 mm long
- 2-Leaves entire or runcinate

C. kossinskyi (Krasch.) Kirp.

-Leaves pinnatipartite or pinnatisect



Fig. 1. Cephalorrrhynchus tuberosus (x.0.75); achene (x7.5).

3-Achenes pale brown, with 5 ribs

C. microcephalus (DC.) Schchian

-Achenes dark brown or blackish, more than 5 to 15 ribs 4

4-Pappus 3-4.5 mm long, strongly barbellate

C. rechingerianus Tuisl

-Pappus 5-6 mm long, weakly scabrous

C. tuberosus (Stev.) Schchian

5-Leaves herbaceous, pinnatipartite

C. gorganicus (Rech. f. & Esfand.)Tuisl

-Leaves coriaceous, entire or pinnatisect 6 6-Achenes 3 mm long; pappus 3-3.5 mm long. Ligules yellow sometimes blue *C. brassicifolius* (Boiss.) Tuisl

-Achenes 3-4.5 mm long; pappus 4-5 mm long. Ligules blue or violet 7

eous, pinnatipartite

7-Stems branched at base, with scale leaves or almost leafless. Achenes with 10-14 ribs

C. polycladus (Boiss.) Kirp.

- Stems with corymbose branches at the middle, foliate in lower half. Achenes with 8- 12 ribs

C. takhtadzhianii (Sosn.) Kirp.

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