

# On the Distribution of *Microcnemum corraloides* (Loscos & Pardo) Buen subsp. *anatolicum* (Chenopodiaceae) Wagenitz in Turkey

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## Abstract

Herewith the distribution of subspecies *Microcnemum corraloides* (Loscos & Pardo) Buen subsp. *anatolicum* Wagenitz is given with current records. Its associated plant species and comment on its threat category are given.

**Key words:** Chenopodiaceae, Flora, Turkey

## INTRODUCTION

*Microcnemum* Ung.-Sternb. (Chenopodiaceae) is a monotypic genus, which is represented by the species *Microcnemum corraloides* (Loscos & Pardo). The species has two subspecies; *Microcnemum corraloides* (Loscos & Pardo) Buen subsp. *corraloides* that distributes south and southeastern Spain and *Microcnemum corraloides* (Loscos & Pardo) Buen subsp. *anatolicum* Wagenitz that distributes in south of Tuz Lake. *Microcnemum corraloides* subsp. *anatolicum* is known as endemic subspecies from Turkey although the subspecies recorded from Armenia [1]. There is also a record from Iran but there is no intraspecific information about Iranian specimen [1]. Information about the distribution of the *Microcnemum corraloides* subsp. *anatolicum* in Flora of Turkey and East Aegean Islands is insufficient. It is only known from south of Tuz lake [2, 3] from Turkey. Even though some specimens had been collected from different parts of Tuz Lake edge by several collectors but there is no publication on the distribution of the taxon.

## MATERIALS AND METHODS

The study is based on plant materials, which have been collected, by the author and specimens in Herbaria ANK, GAZI and KAS. The list of the specimens used to create distribution maps is given in Table 1. The voucher specimens collected by the author will be deposited in Herbarium ANK.

## RESULTS AND DISCUSSION

In Flora of Turkey and East Aegean Islands species author of *M. corraloides* is given incorrectly as (Loscos & Pardo) Font-Quer [3] correct form is (Loscos & Pardo) Buen.

Wagenitz [4] informed that the subspecies is localized in extreme halophytic habitats and occurs with *Salicornia europaea* L. sensu lato, *Halimione verrucifera* (M.B.) Aellen and *Halocnemum strobilaceum* (Pall.) M.B. The author observed that the subspecies also occurs with *Aeluropus littoralis* (Gouan) Parl., *Juncus acutus* L., *Phragmites australis* (Cav.) Trin. Ex Steudel and *Salsola kali* L.. Distribution map

**Table 1.** Specimens used for the study

Locality	Date	Altitude	Collector and Collection No.
B4 Konya: Cihanbeyli, Kırkışla	24.09.1988	960 m	E.YURDAKULOL 2704
B4 Konya: Cihanbeyli, Yavşan Tuzlaşısı	18.07.1996	900 m	M.VURAL, N.ADIGÜZEL, M. ÖZTEKİN (M.VURAL 7558)
C2 Denizli: Çardak, Western edge of Acıgöl	01.10.1997	900 m	FREITAG & ADIGÜZEL (FREITAG 28.736)
C4 Konya: 8 km Northeast on Karapınar	05.10.1997	1000 m	FREITAG & ADIGÜZEL (FREITAG 28.777)
B4 Ankara: Şereflikoçhisar, Şereflikoçhisar to Ankara, Northeast edge of Tuz Lake	24.11.2000	911 m	A.E. YAPRAK 2001-68
C5 Konya: Ereğli, Near to Zengen Village	25.11.2000	1066 m	A.E. YAPRAK 2000-26
B5 Kayseri: Büyüktuzhisar, South edge of Tuzla Lake	08.09.2004	1124 m	A.E. YAPRAK 2004-251
B4 Aksaray: Eskil, South edge of Tuz Lake, 3 km east on Eskil	10.09.2004	910 m	A.E. YAPRAK 2004-268
B3 Eskişehir: Günyüzü, 2 km East on Kavuncu Village	20.09.2004	707 m	A.E. YAPRAK 2004-282

created is given in Figure 3. The Red Data Book of Turkish Plants reveals that *M. corraloides* subsp. *anatolicum* is in danger of becoming extinct with threat category VU [4]. The

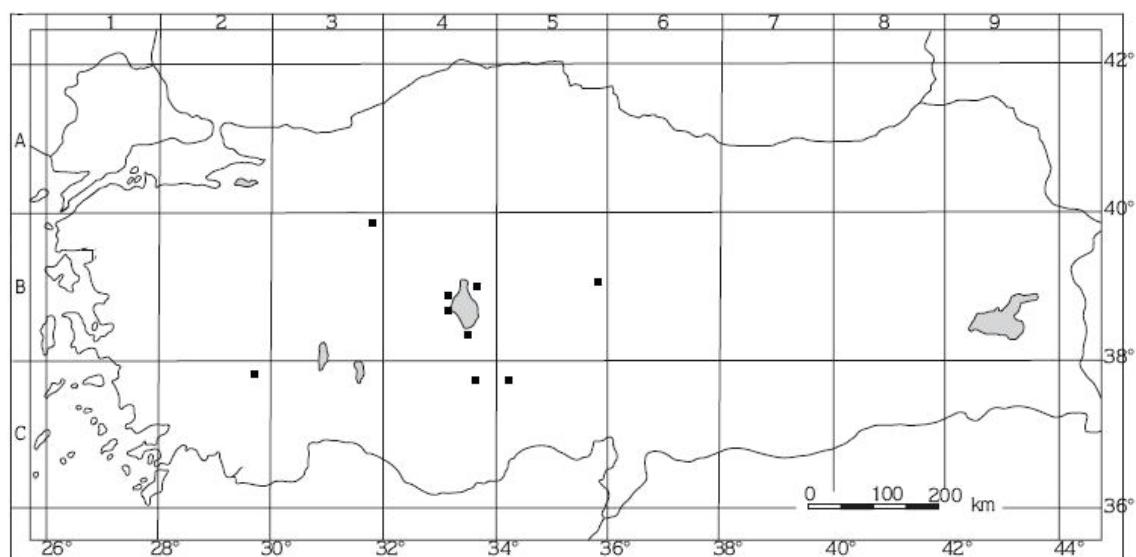
author is agreed with this threat category. The subspecies is adapted to extreme halophytic microhabitats so any changes in those habitats could be resulted in extinction.



**Figure 1.** A close-up picture of *Microcnemum corraloides* subsp. *anatolicum*



**Figure 2.** A picture of *Microcnemum corraloides* subsp. *anatolicum* in its habitat



**Figure 3.** Distribution map of *M. corraloides* subsp. *anatolicum* in Turkey

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