

## CONTRIBUTION TO THE FLORA OF EUROPEAN TURKEY

Fazıl ÖZEN\* & İlker GENÇ\*\*

### S U M M A R Y

The specimens of four new taxa collected from Çatalca [A2(E) İstanbul] have been added to the flora of European Turkey: *Arabis caucasica* Willd. subsp. *caucasica*; *Scorzonera cana* (C.A. Meyer) Hoffm. var. *jacquiniana* (W.Koch) Chamberlain; *Taraxacum poliochlorum* Dahlst.; *Cruciata taurica* (Pallas ex Willd.) Ehrend.

**Keywords:** Vascular plants, new records, European Turkey, Thrace.

### Ö Z E T

Trakya florasına Çatalca'dan [A2(E) İstanbul] toplanan örneklerle 4 takson ilave edilmiştir: *Arabis caucasica* Willd. subsp. *caucasica*; *Scorzonera cana* (C.A. Meyer) Hoffm. var. *jacquiniana* (W.Koch) Chamberlain; *Taraxacum poliochlorum* Dahlst.; *Cruciata taurica* (Pallas ex Willd.) Ehrend.

\* Faculty of Science and Art, Department of Biology, Balıkesir University, 10100 Balıkesir-Turkey  
e-mail: fozen@balikesir.edu.tr

\*\* Faculty of Pharmacy, Department of Pharmaceutical Botany, İstanbul University, 34452 İstanbul-Turkey  
e-mail: ilgenc@hotmail.com

## I N T R O D U C T I O N

European Turkey (Turkish Thrace) occupies a small part of Europe and Turkey, and has a surface area about 23.500 km<sup>2</sup>. The flora of European Turkey has attracted the attention of numerous botanists since beginning of the 19<sup>th</sup> century. Since 1950s Turkish botanists have collected many specimens and have made numerous records (1-8). The main herbaria for this part of Turkey are ISTE (Herbarium of the Faculty of Pharmacy of Istanbul University), ISTF (Herbarium of the Faculty of Science of Istanbul University) and EDTU (Herbarium of the Faculty of Science of Trakya University). Today ISTE houses about 1960 taxa collected from European Turkey. This number represents 80 % of the vascular flora of European Turkey. According to *Flora of Turkey and the East Aegean Islands* (10-12) and the ISTE records, the total number of species recorded in European Turkey is approximately 2350. This number goes up to 2550 taxa with subspecies and variety (13).

During the field work of a master thesis titled "*The Flora of Çatalca (Istanbul) and its Environment*", some specimen collected around Çatalca (situated at the European site of İstanbul) seemed to be new records for The Flora of European Turkey. After all the related publications (14-18) checked, the new records of the following four taxa have been added to the flora of European Turkey:

## THE LIST OF THE ADDED TAXA TO THE FLORA OF EUROPEAN TURKEY

## BRASSICACEAE

**\**Arabis caucasica* Willd. subsp. *caucasica***

Distribution area in European Turkey: A2(E) İstanbul: Çatalca, İnceğiz, caves, around the picnic area, 85m, 12.04.2003, Genç 1547 (ISTE)!

Distribution area in Turkey: Widespread, mainly in N.&E. Anatolia

General distribution: Albania, Bulgaria, Kriti (Crete), France, Greece, Italy, Jugoslavia, Russia (Crimea), Sicilia, Austria, Belguim, Britain, Germany, Netherlands, Turkey (9).

In the first volume of *Flora of Turkey and The East Aegean Islands* (10) 4 *Arabis* species were recorded in European Turkey: *A. turrita* L., *A. hirsuta* Scop., *A. sagittata* (Bertol.) DC., *A. verna* (L.) DC.

*Arabis caucasica* is represented by two subspecies in Turkey, subsp. *caucasica* is widespread mainly in N.&E. Anatolia, and other subsp. *brevifolia* distributes Taurus Mountains and Amanous Mountains. These two subspecies distinguished by petiole length and pedicel position. In subsp. *caucasica* without distinct petioles on the other hand subsp. *brevifolia* clearly petiolate. The pedicels of subsp. *caucasica* straight, erect and spreading, in subsp. *brevifolia* pedicels arcuate-incurved.

#### ASTERACEAE

\**Scorzonera cana* (C.A. Meyer) Hoffm.

var. *jacquiniana* (W.Koch) Chamberlain

Distribution area in European Turkey: A2(E) İstanbul: Çatalca, Havuz, roadsides to the pool, 70 m, 19.05.2002, Genç 1251 (ISTE)!

Distribution area in Turkey: Scattered but especially common in the inner Anatolia

General distribution: Albania, Austria, Bulgaria, Czechoslovakia, Greece, Hungary, Italy, Jugoslavia, Romania, Russia (South-western region, Crimea, South-eastern region), Sardinia, Sicily, Sweden, Turkey, (9).

In *Flora of Turkey and The East Aegean Islands* (10) this species is represented by 4 varieties in Turkey. Only var. *cana* is recorded in European Turkey, the other varieties occur Asiatic part of Turkey. With this new finding (var. *jacquiniana*), two varieties grow in European part of Turkey. The four varieties are recognized by the following differences:

1. Stems (13-)20-55 cm from uppermost fork to ground level..... var. **jacquiniana**
1. Stems less than 15 cm or plants subscapigerous
2. Flowering capitula 20-30 mm long; plants usually not caespitose..... var. **cana**
2. Flowering capitula 13-18(-20) mm long; plants often caespitose
3. Plants glabrous; leaves simple or with few short lobes..... var. **alpina**
3. Plants canescent, sometimes densely so; leaves usually clearly pinnatipartite..... var. **radicosa**

**\**Taraxacum poliochlorum* Dahlst.**

Distribution area in European Turkey: A2(E) İstanbul: Çatalca, Subaşı, picnic area, open wood, 80 m, 10.03.2002, Genç 1131 (ISTE)!

Distribution area in Turkey: N.&NE. Anatolia.

General distribution: Greece.

As *Flora of Turkey and The East Aegean Islands* (10) the genus *Taraxacum* is represented by 11 taxa in European Turkey of which two taxa [*T. aznavourii* van Soest [A2(E)], *T. pseudobrachyglossum* van Soest [A1(E), A2(E)]] are endemic to this area and one [*T. turcicum* (A2(E/A), A8, C3)] is more widespread and endemic to Turkey.

**RUBIACEAE**

**\**Cruciata taurica* (Pall. ex Willd.) Ehrend.**

Distribution in European Turkey: A2(E) İstanbul: Çatalca, Hadımköy, military area, around the helicopter airfield, 60 m, 29.03.2002, Genç 1170 (ISTE)!

Distribution in Turkey: Widespread.

General distribution: E.Greece, Crimea, Caucasia, Iran, Turkmenia, Iraq, Syria, Lebanon.

Floristic region: Irano-Turanien.

As *Flora of Turkey and The East Aegean Islands* (10) the genus *Cruciata* is represented by 2 species in European Turkey: *C. laevipes* Opiz, *C. pedemontana* (Bellardi) Ehrend.

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