

COMMUNICATIONS

DE LA FACULTÉ DES SCIENCES
DE L'UNIVERSITÉ D'ANKARA

Série C₂ : Botanique

TOME 22

ANNÉE 1978

New Floristic records From A₈ (Erzurum)

by

ÂDEM TATLI

2

Faculté des Sciences de l'Université d'Ankara
Ankara, Turquie

Communications de la Faculté des Sciences de l'Université d'Ankara

Comité de Rédaction de la Série C₂

N. Aslan Y. Akman E. Duygu

Secrétaire de Publication

A. Yalçın

La Revue "Communications de la Faculté des Sciences de l'Université d'Ankara" est un organe de publication englobant toutes les disciplines scientifique représentées à la Faculté.

La Revue, jusqu'à 1975 à l'exception des tomes I, II, III, était composé de trois séries

Série A : Mathématique, Physique et Astronomie.

Série B : Chimie.

Série C : Sciences naturelles.

A partir de 1975 la Revue comprend sept séries:

Série A₁: Mathématique

Série A₂: Physique

Série A₃: Astronomie

Série B : Chimie

Série C₁: Géologie

Série C₂: Botanique

Série C₃: Zoologie

En principe, la Revue est réservée aux mémoires originaux des membres de la Faculté. Elle accepte cependant, dans la mesure de la place disponible, les communications des auteurs étrangers. Les langues allemande, anglaise et française sont admises indifféremment. Les articles devront être accompagnés d'un bref sommaire en langue turque.

Adresse: Fen Fakültesi Tebliğler Dergisi, Fen Fakültesi, Ankara, Turquie.

New Floristic records From A₈ (Erzurum)

ÂDEM TATLI*

ABSTRACT

Sixty-eight species are listed which are new records for the province of Erzurum in the transitional area along the boundries of East Anatolia and Black Sea regions. They are published as new grid square records using the system adopted in Davis's Flora of Turkey, and belong to the families dealt with in the first five volumes of the Flora.

INTRODUCTION

The plants in this paper were collected by the author from the area between Serçeme stream and Çoruh River, which is transition area along the boundries of East Anatolia and Black Sea regions, while studying the phytoecology and phytosociology of study area in between 1975 and 1977.

The studied area takes part in between Irano-Turanien and Euro-Siberian phytogeographical regions. The east part of the area is bounded by Mescit Dağ, Stenk Dağ and Kuş Dağ. There are Kavak Dağ, Çiğdem Dağ, Koç Dağ and Ziyaret Tepe in the west and the south of the area respectively. The northern part of the region is bounded by Çoruh River and the Serçeme valley runs from north to south (fig: 1) The altitute of the northern part of the area is approximately 1300 m. but it goes up to 1900 m. in southern part. The highest point of the area is Yıldız mountain (3133 m.)

The climate of the investigated area is continental in character with long and snowy winters and short summers. Mean annual precipitation varies from 460 to 800 mm., depending on the altitude and aspect of the hills. It usually falls in winter and spring.

Three main vegetation types can be distinguished in the area:

* Department of Botany, Faculty of Basic Sciences, University of Erzurum.

1. The river bank vegetation; from 1900 to 2200 m., in which the dominant and constant species are *Salix armeno-rossica* and *Hippophae rhamnoides*.

2. Forest vegetation; including *Pinus sylvestris* and *Populus tremula*.

3. Steppic vegetation; from 1300 to 2500 m., in which the dominant and constant species are; *Astragalus aureus*, *Genista aucheri*, *Hedysarum hedysaroides*, *Artemisia spicigera* and so on.

My collection, totaling about 450-500 species gatherings was made in 1975 and 1977 while studying the phytoecology and phytosociology of the area. Most of the specimens were identified in the herbarium of the department of Botany, Faculty of Science, University of Ankara. Some of them were sent for identification to Dr. H. Peşmen, Dr. G. Wagenitz and Dr. F. Holtz. I am grateful to them for their co-operation and comments.

The area studied falls within A8 of the grid system adopted by Davis (1975) in "Flora of Turkey". The list of the plants follows the sequence of families, genera and species adopted in Flora of Turkey volumes I-V. The figures in square brackets rafter the name of the species refer to the volume and page number in Flora. All the specimens cited are in the Temel Bilimler Herbarium (TEM) of Erzurum University.

SPERMATOPHYTA

RANUNCULACEAE

Ranunculus cuneatus Boiss. [I: 176]

Erzurum; E of Yoncalık village, 2200 m., 4.6.1977, Tatlı, 5536.

Ceratocephalus testiculatus (Crantz) Roth [I: 198]

Erzurum; 5 km. NE of Toncalık village, 1960 m., 13.5.1976, Tatlı 4224.

Thalictrum flavum L. [I: 203]

Erzurum; E of Çamlıca village, 2035 m., 31.7.1976, Tatlı, 5115.

BERBERIDACEAE

Berberis crataegina DC. [I: 209]

Erzurum; 5 km. E of Eğerti village, 1970 m., 30.7.1976, Tath 5080.

PAPAVERACEAE

Papaver orientale L. var. *orientale* [I: 221]

Erzurum; 5 km. E of Kabaktepe village, 2500 m., 9.7.1977, Tath 5620.

CRUCIFERAE

Aethionema speciosum Boiss. et Huet [I: 322]

Erzurum; Yıldız mountain, NE of Kabaktepe village, 2400 m., 10.7.1977, Tath 5548

A. armenum Boiss. [I: 327]

Erzurum; 1 km. E of Sorhumlu village, 2270 m., 14.7.1977, Tath 5813.

Thlaspi perfoliatum L. [I: 333]

Erzurum; 1 km. E. of Yonecalık village, 2100 m., 5.6.1977, Tath Tath 5503.

Alyssum minus (L.) Rothm. var. *micranthum* (Meyer) Dudley [I: 381]

Erzurum, 46 km. SW of İspir, roadside, 1960 m., 28.7.1976, Tath 4959.

A. minus (L.) Rothm. var. *minus* [I: 381]

Erzurum; E of Kabaktepe village, 2300 m., 9.7.1977, Tath 5704.

A. propinquum Baumg. [I: 390]

Between Erzurum and İspir, N of Kavakdağ, 2060 m., 3.8.1976 Tath 5223.

Erysimum leptophyllum (Bieb.) Andr. [I: 472]

Erzurum, W of Eđerli village, Kelkayalar valley, 2200 m., 13.7.1976, Tath, 4645.

CISTACEAE

Helianthemum canum (L.) Baumg. [I: 514]

60 km. NW of Erzurum, 2100 m., 10.7.1976, Tath 4744.

VIOLACEAE

Viola gracilis Sibthorp et Smith [I: 532]

Erzurum, Tabaktepe village, Tortum mountain, 2820 m., 9.7.1977,
Tath 5675.

CARYOPHYLLACEAE

Minuartia lineata Bornm. [II: 51]

46 km. SW of İspir, 1950 m., 14.7.1976, Tath 4811.

Dianthus anatolicus Boiss. [II: 110]

Between Erzurum and İspir, N of Kavakdağ, 2060 m., 3.8.1976,
Tath 5220.

D. crinitus Sm. [II: 119]

Erzurum, between Kızılkale and Kapulu villages, Koç mountain,
2700 m., 19.8.1976, Tath 5412.

D. masmenaeus Boiss. [II: 123]

Erzurum, Turnagöller, 2200 m., 29.7.1976, Tath 5024.

Saponaria prostrata Willd. subsp. *anatolica* Hedge [II: 146]

Erzurum; around Gelinkaya village, 1920 m., 15.6.1976, Tath 4377.

Gypsophila bitlisensis Bark. [II: 166]

Erzurum; 1 km. W of Rizekent village, 2100 m., 22.7.1976. Tath
4914.

Silene lasiantha Koch [II: 196]

Erzurum; NE of Kabaktepe village, Yıldız mountain, 3150 m.,
10.7.1977, Tath 5562.

S. arguta Fenzl. [II: 209]

Erzurum; NW of Kabaktepe village, Çadır valley, 2600 m., 9.7.1977,
Tath 5580

S. oligotricha Hub. -Mor. [II: 219]

60 km. NW of Erzurum, 2100 m., 10.7.1976 Tath 4774.

ILLECEBRACEAE

Herniaria incana Lam. [II: 248]

Erzurum; around Ovacık, 2150 m., 16.8.1976, Tath 5436.

POLYGONACEAE

Atraphaxis billardieri Jaub. et Spach var. *tournefortii* (Jaub. et
Spach) Cullen [II: 267]

Erzurum; around Ağcakent village, 2050-2200 m., 15.8.1976,
Tath 5385.

LEGUMINOSAE

Astragalus ovatus DC. [II: 80]

Erzurum; 3 km. NW of Gelinkaya village, 2000 m., 15.6.1976.
Tath 4351.

A. pinetorum Boiss. [III: 114]

Erzurum; NE of Kabaktepe village, Tortum mountain, 2670-2850
m., 9.7.1977, Tath 5668.

A. eriocephalus Willd. subsp. *eriocephalus* [III: 126]

Erzurum; between Erzurum and İspir, Yenidağ, 2200-2300 m.,
5.8.1976, Tath 5482.

A. acmophyllus Bunge [III: 133]

Erzurum; between Erzurum and İspir, Yenidağ, 2300 m., 5.8.1976,
Tath 5478.

A. xerophilus Ledeb. [III: 213]

Erzurum; NE of Kabaktepe village, Yıldız mountain, 2600-2700
m., 1.8.1976, Tath 5767a.

A. globosus Vahl. [III: 220]

Erzurum; N of Ortaveren village, Gâvur mountain, 2650–3100 m.,
21.7.1977, Tath 5758.

A. argyroides Becker ex Stapf [III: 244]

Erzurum; 20 km. SW of İspir, Çoruh Valey, 1350 m., 21.6.1976,
Tath 4427.

Cicer pinnatifidum Jaub. et Spach [III: 271]

Erzurum; 15 km. SW of İspir, Çoruh valley, 1350 m., 21.6.1976,
Tath 4498.

Vicia alpestris Stev. subsp. *alpestris* [III: 289]

Erzurum; 25 km. W of Toprakkale village, Keçi tepe, 2200 m.,
18.7.1976, Tath 4860.

Trifolium nigrescens Viv. [III: 396]

Erzurum; around Gelinkaya village, 1920 m., 15.6.1976, Tath 4307.

Trigonella lunata Boiss. [III: 459]

Erzurum; between Erzurum and İspir, Çoruh valley, 1350 m.,
21.6.1976, Tath 4420.

Medicago minima (L.) Bart. var. *minima* [III: 498]

Erzurum; 20 km. SW of İspir, Çoruh valley, 1350 m., 21.6.1976,
Tath 4423.

M. rigidula (L.) [III: 504]

Erzurum; 20 km. SW of İspir, Çoruh valley, 1350 m., 21.6.1976
Tath 4433.

Onobrychis cornuta (L.) Desv. [III: 564]

Erzurum; 20 km. S of Tortum waterfall., 1250 m., 5.7.1975, Tath
2106.

O. stenostachya Freyn [III: 567]

Erzurum, around Gelinkaya village, 2100 m., 7.7.1976, Tath 4

O. fallax Freyn et Sint. [III: 569]

Erzurum, around Sorhumlu village, 2100–2270 m., 14.7.1977, Tath
5812.

O. armena Boiss. et Huet [III: 575]

Erzurum, between Erzurum and İspir, Kavakdağ, 2150m., 3.8.1976,
Tath 5335.

O. viciifolia Sciop. [III: 576]

Erzurum; Ortaveren village, Gâvur mountain, 2650–3100 m.,
21.7.1977, Tath 5752.

O. oxyodonta Boiss. [III: 577]

Erzurum, 46 km. SW of İspir, 1950 m., 14.7.1976, Tath 4821.

ROSACEAE

Rubus caesius L. [IV: 33]

Erzurum, Sorhumlu village, 2150–2270 m., 14.7.1977, Tath 5819.

Potentilla argaea Boiss. et Bal. [IV: 55]

Erzurum NE of Kabaktepe village, Tortum mountain, 2100–3150
m., 10.7.1977, Tath 5550a:

P. aucheriana Wolf [IV: 59]

Erzurum, NE of Kabaktepe village, Tortum mountain, 2100–3150
m., 10.7.1977. Tath 5550b.

Geum rivale L. [IV: 72]

Erzurum, N of Ahırcık village 2500–2600 m., 24.7.1977, Tath 5930.

UMBELLIFERAE

Bunium microcarpum (Boiss.) Freyn subsp. *longiradiatum* Hedge
et Lamond [IV: 346]

Erzurum, Çamlıca village, Populus tremula forest, 2250 m., 15.8.
1976, Tath 5370.

Pimpinella peucedanifolia Fisch. ex Ledeb. [IV: 364]

Erzurum; around Ovacık village, 2150 m., 16.8.1976, Tath 5439.

Prahgos uechtrizii Boiss. et Hausskn. [IV: 387]

Erzurum; NW of Kabaktepe village Çasıır valley, 2500 m., 25.7.1977
Tath 5969.

Ferula rigidula DC. [IV: 446]

Erzurum, Petekli village, Kokmuşun Get valley, 2250 m., 25.8.1976
Tath 5464.

Malabaila dasyantha (C. Koch) Grossh. [IV: 486]

Erzurum, Çatak village, Populus tremula forest, 2150 m., 17.8.1976
Tath 5451.

M. secacul Banks et Sol. [IV: 487]

Erzurum; 46 km. SW of İspir, roadsides, 1960 m., 28.7.1976, Tath
4964.

DIPSACACEAE

Cephalaria sparsipilosa Matthews [IV: 596]

Erzurum; Aynalı kale village, Ziyaret mountain, 2450–2650 m.,
11.8.1976 Tath 5355.

VALERIANACEAE

Valeriana phu L [IV: 554]

Erzurum; N of Ahırcık village, 2500–2600 m., 24.7.1977, Tath
5900.

V. leucophaea DC. [IV: 557]

Erzurum, NE of Ahırcık village, Yıldız mountain, 2100–3150 m.,
10.7.1977, Tath 5558.

Valerianella cymbicarpa C.A. Meyeri [IV: 566]

Erzurum, around Gelinkaya village, 1920 m., 15.6.1976, Tath, 4370.

COMPOSITAE

Inula thapsoides (Bieb. ex Willd). Sprengel subsp. *thapsoides* [V:
69]

Erzurum; Kavakdağ, 2000 m., 26.8.1976, Tath 5457.

Helichrysum pallasii (Sprengel) Ledeb. [V: 88]

Erzurum; Kapulu village, Koç mountain, 2500–2700 m., 19.8.1976
Tath 5409

Doronicum oblongifolium DC. kV: 145]

Erzurum; NE of Kabaktepe village, Tortum mountain, 27900–2820 m., 9.7.1977, Tath 5681.

Anthemis armeniaca Freny et Sint. [V: 205]

Erzurum; around Gelinkaya village, 1920 m., 15.6.1976, Tath 4332.

Tanacetum mucroniferum Hub.-Mor. et Grierson [V: 272]

Erzurum; NE of Kabaktepe village, Tortum mountain, 2670–2850 m., 9.7.1977, Tath 5662.

E. cadmeum (Boiss.) Heywood subsp. *orientale* Grierson [V: 282]

Erzurum; 15 km. SW of İspir, Çoruh valley, 1350 m., 21.6.1976 Tath 4501.

Arthemisia taurica Willd. [V: 323]

Erzurum; around Rizekent village, 2100 m., 22.7.1976, Tath 4900.

Scorzonera cana (C.A. Meyer) Hoffm. var. *radicosa* (Boiss.) Cham. [V: 637]

Erzurum; 60 km. NW of Erzurum, 2100 m., 10.7.1976, Tath 4772.

S. pseudolanata Grossh. [V: 652]

Erzurum; km. SW of İspir, Çoruh valley, 1300 m., 15.5.1976 Tath 4286.

REFERENCES

- Davis, P.H. (196(-197?). Flora of Turkey and the East Aegean Islands. Vol. I (196()), II (1967), III (1970), IV (1972), V (1975). Edinburgh Univ. Press, Edinburgh.
- Huber-Morath, A. (1973). Ergunzungen zur Flora der Turkei. Verhandl. Naturf. Ges. Basel 83: 193–318.
- Walter, K. (1975). Beitrage zur Flora Nordostanatoliens. Beitr. naturk. Forsch. Südwestl. Band 34, Oberdorfer-Festschrift, S. 411–427.

ÖZET

Bu bitki listesi, Doğu Anadolu-Karadeniz geçiş bölgesinde Erzurum ili A8 karesi için yeni olan altmış-sekiz bitki türünü ihtiva etmektedir. Bu çalışmada, Davis'in Türkiye Florası'nda kullandığı yeni kareleme sistemi uygulanarak ve Flora'nın yalnızca ilk beş cildindeki familyalarla ilgili olarak hazırlanmıştır.

Prix de l'abonnement annuel

Turquie: 15 TL; Étranger: 30 TL.

Prix de ce numéro: 5 TL (pour la vente en Turquie).

Prière de s'adresser pour l'abonnement à: Fen Fakültesi
Dekanlığı Ankara, Turquie.