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New floristic records from southern Turkey
(Adana, distr. Karsanti)

by

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New floristic records from southern Turkey (Adana, distr. Karsanti)

Ender YURDAKULOL*

ABSTRACT

Sixty-two species are listed which are all believed to be 'square' (C5) collected from the province of Adana in the southern part of Turkey. 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 listed in this paper were collected by the author from the south-western part of the Anti-Taurus mountains while studying the ecology and phytosociology of the Pos forest (Adana, distr. Karsanti).

The province belongs to the Mediterranean phytogeographical region. The eastern part of the area is bounded by Zamanti Suyu, which is the main tributary of the Seyhan river. To the west of the area studied, the Pozanti walley runs from north to south. The northern boundary of the region is the south slopes of the Aladağ. The altitude of the southern part of the area is approximately 500 m. but it goes up to 1800 m. in the northern part. The altitude of Akinek mountain reaches 2056 m., which is the highest point of the area.

The climate is typically Mediterranean. It is very cold and rainy. The range of rainfall varies from the moderate to the less moderate. The annual precipitation varies from 600 to 800 mm., depending on the altitude and aspect of the hills. Northern slopes usually get more rain than the others. Snow lies a few days during winter in places which are higher than 1000 m.

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Three main vegetation types can be distinguished in the Pos forest area:

1- Macchie vegetation, from 400 to 700 m., has evergreen shrubs. Leading species include *Quercus coccifera*, *Phillyrea latifolia*, *Myrtus communis* and so on.

2- Conifer forests, including *Pinus brutia* (700 to 1100 m.), *Pinus nigra* subsp. *pallasiana* (1200 to 1600 m.), *Abies cilicica* subsp. *cilicica* and *Cedrus libani* (1200 to 1800 m.)

3- Steppic vegetation, from 1600 to 1800 m., in which the dominant and constant species are *Astragalus gummifer* and *Astragalus plumosus*.

My collection, totalling about 580 gatherings was made between 1972 and 1974 while studying the ecology and phytosociology of the Pos forest (Karsanti-Adana). Most of the specimens were identified in the herbarium of the Department of Botany, Faculty of Science, University of Ankara (ANK.). Some of them were sent for identification to Dr. P. H. Davis, Dr. A. Huber-Morath, Dr. H. Peşmen and Dr. F. Yaltırık. I am grateful to them for their co-operation and comments.

The area studied falls within C5 of the grid system adopted by Davis (1965-1975-). The list of the plants follows the sequence of families, genera and species adopted in *Flora of Turkey* vols I-V. The figures in square brackets after the name of the species refer to the volume and page number in *Flora*. The accompanying map (fig. 1) shows some of the more frequently cited localities in the area studied. All the specimens cited are in the Ankara Herbarium (ANK.).

In order to ensure that the records listed below are new to the grid square cited in the first five volumes of the *Flora*, the following floristic works have been consulted: T. Kotschy (1858), F. Sorger (1971), P. Quézel (1973) and A. Huber-Morath (1973, 1974, 1975).

Two new species have also been described recently from the area: *Centaurea ptosimopappoides* Wagenitz (in Davis 1974); and *Hedysarum antitauricum* Hub-Mor. & Yurdakulol (in Huber-Morath 1974). They are not included in the following list.

ASPLENIACEAE

Asplenium adianthum-nigrum L. [I: 50]

Soğukoluk, Üzerintaş, 1270 m., 29. 6. 1973. *Yurdakulol* 10451

Common in the *Pinus nigra* forests.

Asplenium onopteris L. [I: 50]

Hizar, 950 m., 28. 6. 1973, *Yurdakulol* 10452

Common in the *Pinus brutia* forests.

ATHYRIACEAE

Athyrium filix-foemina (L.) Roth [I: 53]

Yaprakh, 1100 m. 5. 8. 1972, *Yurdakulol* 10455

RANUNCULACEAE

Clematis vitalba L. [I: 138]

Eğner, Çöreği bridge, 720 m., 30. 5. 1974

Common in the *Pinus brutia* forests

PAPAVERACEAE

Papaver syriacum Boiss. & Blanche [I: 233]

Meydan, *Abies cilicica* forest, 1180 m., 28. 5. 1973, *Yurdakulol* 10436 (det. Hub.-Mor.)

CRUCIFERAE

Ricotia aucheri (Boiss.) B. L. Brutt [I: 355]

Eğni, Tahtalı, 1150 m., 24. 6. 1973, *Yurdakulol* 10181

Common on screes, rocky slopes, in clearings of *Pinus brutia* forests.

Alyssum samariferum Boiss. & Hausskn. [I: 408]

Soğukoluk, Faraşa, 1420 m., 14. 7. 1972, *Yurdakulol* 10159

Common in open places of the *Pinus nigra* forests.

Arabis caucasica Willd. subsp. *caucasica* [I: 426]

Eğner, Yüksekören, 750, m., 4. 5. 1974, *Yurdakulol* 10162

Common in stony places of the *Pinus brutia* forests.

A. sagittata (Bertol.) DC. [I: 427]

Sögüt, 940 m., 26. 5. 1973, *Yurdakulol* 10163

Common in rocky places of the *Pinus brutia* forests.

Cardamine hirsuta L. [I: 443]

Meydan, İşıldak hill, 1300 m., 30. 5. 1974, *Yurdakulol* 10167

Common in clearings of the *Abies cilicica* forests.

Hesperis cappadocica Fourn [I: 455]

Şamadan, Deveçökeği, *Pinus nigra* forest, 1230 m., 1.7.1973,
Yurdakulol 10173 (det. Hub.-Mor).

CISTACEAE

Fumana grandiflora Jaub. & Spch [I: 518]

Karapınar saddle, 1650 m., 15.7.1972 *Yurdakulol* 10073 (det.
Hub.-Mor.)

VIOLACEAE

Viola jordanii Hanry [I: 533]

Soğukoluk, Üzerintas, *Pinus nigra* forest, 2270 m., 29.6.1973,
Yurdakulol 10567 (det. Hub.-Mor.)

POLYGALACEAE

Polygala pruinosa Boiss. subsp. *pruinosa* [I: 535]

Eğni, Sofulu, 950 m., 13. 7. 1972, *Yurdakulol* 10444

CARYOPHYLLACEAE

Arenaria serpyllifolia L. [II: 28]

Meydan, Hayran pass, *Abies cilicica* forest, 1250 m., 28. 5.1973,
Yurdakulol 10030 (det. H. Peşmen)

Stellaria media (L.) Vill. subsp. *media* [II: 69]

Sögüt, Mengez, *Abies cilicica* forest, 1360 m., 3. 6. 1974, *Yurdakulol* 10054

Cerastium brachypetalum Pers. subsp. *roeseri* (Boiss. & Heldr.)
Nym. [II: 82]

Akören, Çöreği mountain, 800, m., 3. 5. 1974, *Yurdakulol* 10031
(det. Hub. -Mor.)

Common in the macchie degraded

Dianthus zonatus Fenzl. var. *zonatus* [II: 128]

Söğüt, Çınardüzü, *Abies cilicica* forest, 1250 m., 10. 7. 1974,
Yurdakulol 10036

D. zonatus Fenzl var. *hypochlorus* (Boiss. & Heldr.) Reeve
[II: 128]

Meydan, *Abies cilicica* forest, 1050 m., 5. 8. 1972, *Yurdakulol*
10065

D. calocephalus Boiss. [II: 129]

Eğni, Tahtalı, *Pinus nigra* plantation, 1150 m., 24. 6. 1973,
Yurdakulol 10033

Silene vulgaris (Moench) Garck. var. *vulgaris* [II: 213]

Soğukoluk, Faraşa, 1420 m., 14. 7. 1972, *Yurdakulol* 10052

S. compacta Fisch. [II: 224]

Yapraklı, 1100 m., 30. 5. 1973, *Yurdakulol* 10049

Common in clearings of the *Pinus brutia* and *P. nigra* forest.

Agrostemma githago L. [II: 244]

Akören, Değirmencik, 900 m., 25. 5. 1973, *Yurdakulol* 10203

Common in segetal communities.

ILLECEBRACEAE

Scleranthus annuus L. subsp. *annuus* [II: 264]

Akören, Değirmencik, 1000 m., 25. 5. 1973, *Yurdakulol* 10045

S. uncinatus Schur [II: 265]

Meydan, degraded *Abies cilicica* forest, 1130, m., 28. 5. 1973,
Yurdakulol 10046

POLYGONACEAE

Polygonum bellardii All. [II: 279]

Soğukoluk, 1100 m., 14. 7. 1972, *Yurdakulol* 10455 (det. Hub.-Mor)

Rumex acetosella L. [II: 284]

Şamadan, 1020 m., 15. 7. 1972, *Yurdakulol* 10447

R. tuberosus L. subsp. *horizontalis* (Koch.) Rech. [II: 286]

Eğni, Tahtalı, 1250 m., 24. 6. 1973, *Yurdakulol* 10450

R. angustifolius Campd. subsp. *angustifolius* [II: 289]

Hızar saddle, 1800 m., 1. 6. 1973, *Yurdakulol* 10448

Common in open places above the *Pinus nigra* forests.

R. pulcher L. [II: 291]

Soğukoluk, Faraşa, *Pinus brutia* forest, 1100 m., 14. 7. 1972,
Yurdakulol 10449 (det. Hub.-Mor.)

GERANIACEAE

Geranium purpureum Vill. [II: 456]

Akören, Çöreği mountain, macchie, 880, m., 3. 5. 1974, *Yurdakulol* 10211

RUTACEAE

Dictamnus albus L. [II: 506]

Hızar, *Pinus brutia* forest, 1000 m., 1. 6. 1973, *Yurdakulol* 10511

ACERACEAE

Acer platanoides L. [II: 512]

Meydan, Sarıcıçek, *Abies cilicica* forest, 1040 m., 12. 9. 1972,
Yurdakulol 10570

RHAMNACEAE

Frangula alnus Miller subsp. *alnus* [II: 525]

Şamadan, Karapınar, 1650 m., 15. 7. 1972, *Yurdakulol* 10593
(det. Hub. -Mor.)

Rhamnus oleoides L. subsp. *graecus* (Boiss. & Reut.) Holmboe
[II: 538]

Yapraklı, *Pinus nigra* plantation, 1650 m. 27. 6. 1973. *Yurdakulol*
10595 (det. Hub. -Mor.)

ANACARDIACEAE

Rhus coriaria L. [II: 543]Ortaca, 1100 m., 14. 7. 1972, *Yurdakulol* 10574Common in the *Pinus brutia* forests.

LEGUMINOSAE

Chamaecytisus hirsutus (L.) Link [III: 17]Akinek mountain, *Pinus nigra* forest, 1600 m. 25. 6. 1973, *Yurdakulol* 10333*Genista lydia* Boiss. var. *antiochia* (Boiss.) P. Gibbs [III: 26]Söğüt, *Pinus brutia* forest, 880 m., 26. 5. 1973, *Yurdakulol* 10344*Astragalus cephalotes* Banks & Sol. var. *cephalotes* [III: 152]Söğüt, Doğan Suyu, *Pinus brutia* forest, 860 m., 26. 2. 5. 1973,
Yurdakulol 10318*Vicia narbonensis* L. var. *serratifolia* (Jacq.) Ser. [III: 322]Akören, Değirmencik, 980 m. 25. 5. 1973, *Yurdakulol* 10389*Trifolium hybridum* L. var. *hybridum* [III: 395]Faraşa, Kurşunatacagi, 1750 m., 14. 7. 1972, *Yurdakulol* 10379
(det. Hub. -Mor.)*T. pratense* L. var. *pratense* [III: 415]Hizar, Elmasekisi, *Pinus nigra* plantation, 1500 m., 31. 5. 1973.
Yurdakulol 10382 (det. Hub. -Mor.)*T. davisii* Hossain [III: 420]Meydan, Aydinhopuru, *Pinus brutia* forest, 1060 m. 30. 5. 1974,
Yurdakulol 10377*Medicago lupulina* L. [III: 487]Hizar, Elmasekisi, 1500 m., 31. 5. 1973, *Yurdakulol* 10360 (det.
Hub. -Mor.)*Lotus gebelia* Vent. var. *anthylloides* Boiss. [III: 529]Soğukoluk, Faraşa, 1050 m., 14. 7. 1972. *Yurdakulol* 10538 (det.
Hub. -Mor)*Anthyllis vulneraria* L. subsp. *praepropera* (Kerner) Bornm.
[III: 536]

Faraşa, Kurşunatacağı, 1750 m., 14. 7. 1972, Yurdakulol 10317
Onobrychis armena Boiss. & Huet [III: 575]

Söğüt, Doğan Suyu, *Pinus brutia* forest, 860, m. 26. 5. 1973,
Yurdakulol 10364 (det. Hub. -Mor.)

ROSACEAE

Potentilla meyeri Boiss. [IV: 50]

Şamadan, Karapınar, *Pinus nigra* forest, 1750 m. 15. 7. 1972,
Yurdakulol 10484 (det. H. Peşmen)

P. inclinata Vill. [IV: 50]

Yazılıkdam, *Pinus nigra* forest, 1400 m., 4. 8. 1972, *Yurdakulol*
 10482 (det. Hub. -Mor.)

Sanguisorba minor Scop. Subsp. *minor* [IV: 78]

Akören, Değirmencik, maechie, 980 m., 22. 5. 1973, *Yurdakulol*
 10487

Crataegus aronia (L.) Bosc. var. *dentata* Browicz [IV: 139]

Masiret, *Pinus brutia* forest, 950 m. 10. 9. 1973, *Yurdakulol*
 10474 (det. Hub. -Mor.)

CRASSULACEAE

Sedum annuum L. [IV: 238]

Meydan, Kaledağ, *Abies cilicica* forest, 1360 m. 30. 6. 1973, *Yurdakulol*
 10150 (det. Hub. -Mor.)

Sedum pallidum Bieb. var. *bithynicum* (Boiss.) Chamberlain
 [IV: 243]

Akinek mountain, *Pinus nigra* forest, 1600 m., 25. 6. 1973, *Yurdakulol*
 10148 (det. Chamberlain)

UMBELLIFERAE

Laser trilobum (L.) Borkh. [IV: 513]

Yapraklı, 1100 m., 30. 5. 1973. *Yurdakulol* 10556

Common in the *Pinus brutia* and *P. nigra* forests.

Orlaya daucoides (L.) Greuter [IV: 530]

Ardıçlıdölek, *Pinus nigra* forest, 1400, m. 15. 7. 1972. *Yurdakulol*
 10552 (det. Hub. -Mor.)

COMPOSITAE

Anthemis cretica L. [V: 182]

Faraşa, Kurşunatacağı, 1750 m., 14. 7. 1972. *Yurdakulol* 10081
(det. A. Grierson)

The material is intermediate between subsp. *pontica* and subsp. *albida*

Tripleurospermum elongatum (Fisch. & Mey.) Bornm. [V: 302]

Hızar saddle, 1800 m. 1. 6. 1973, *Yurdakulol* 10140 (det. Hub. - Mor.)

Jurinea pontica Hausskn. & Freyn [V: 446]

Pizgeçmez bridge, *Pinus brutia* forest, 1100 m., 30. 5. 1973, *Yurdakulol* 10123

Centaurea cataonica Boiss. & Hausskn. [V: 535]

Soğukokluk, Elmasekisi, 1650 m., 9. 7. 1974, *Yurdakulol* 10087

Common in the *Pinus brutia* and *P. nigra* forests.

Leontodon crispus Vill. subsp. *asper* (Waldst. & Kit.) Rohl. var. *asper* [V: 675]

Söğüt, 1420 m. 4. 8. 1972, *Yurdakulol* 10606 (det. F. Kupicha)

Common on screes, rocky slopes, in clearings of *Pinus nigra* forest.

Scariola viminea (L.) F. W. Schmidt [V: 783]

Söğüt, *Pinus brutia* forest, 900, m. 4. 8. 1972, *Yurdakulol* 10128
(det. A. Grierson)

Taraxacum buttleri van Soest [V: 809]

Akören, Değirmencik, 980 m. 21. 4. 1973 *Yurdakulol* 10136 (det. Hub. - Mor.)

ÖZET

Bu çalışmada, Türkiye'nin güneyinde Adana-Karsantı bölgelerinden toplanmış, (C5) karesine ait yeni kayıtlar olduğuna inanılan altmış-iki bitki türü listelendi. Ayrıca, çalışma alanında iki yeni bitki türü:

Centaurea ptosimopappoides Wagenitz

Hedysarum antitauricum Hub. -Mor. & Yurdakulol

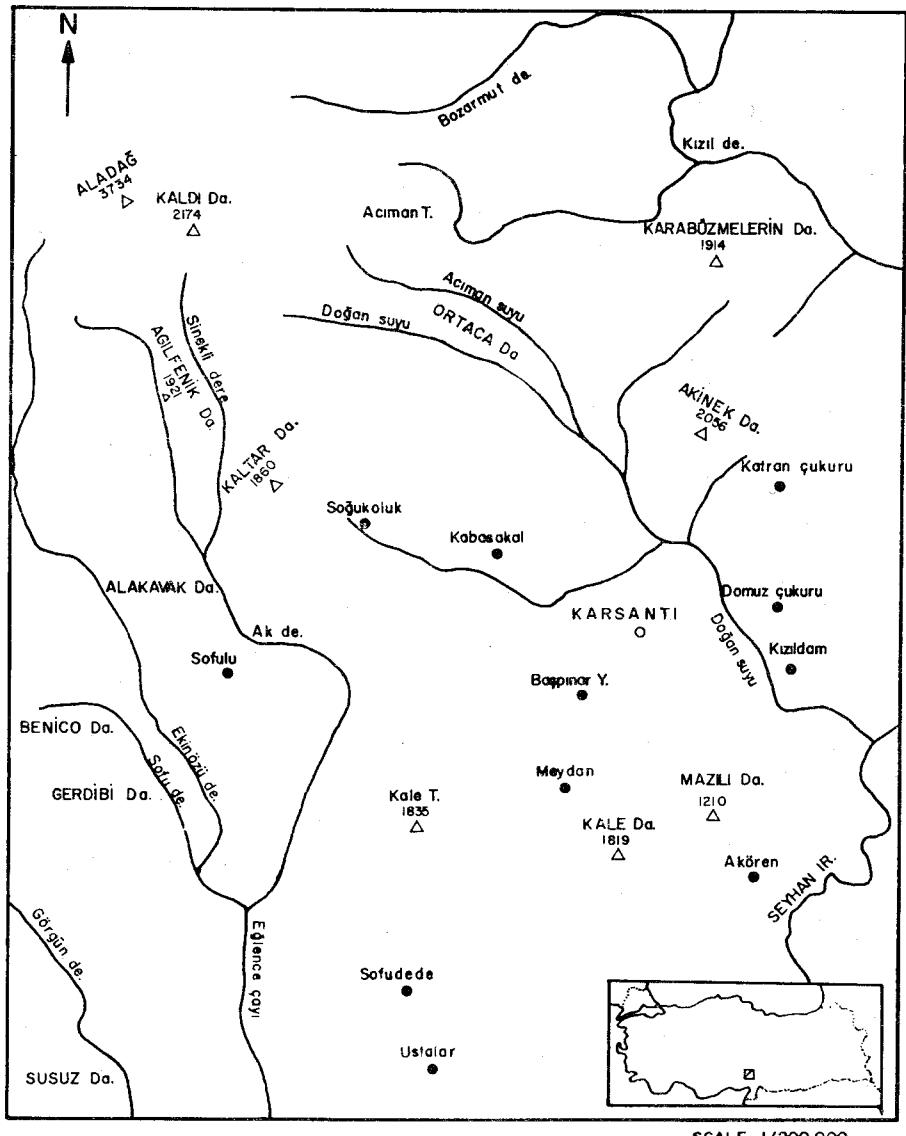
bulunduğu belirlendi.

Bu liste, Davis'in *Türkiye Florası*'nda kullandığı yeni kareleme sistemi uygulanarak ve *Flora*'nın yalnızca ilk beş cildindeki familyalarla ilgili olarak hazırlanmıştır.

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FIGURE I.



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