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New Floristic Records from Anatolia

By

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Key words: *Pteridophyta, Spermatophyta.* — Floristics, Flora of Turkey

Summary

Erik S. 1985. New floristic records from Anatolia. — Phyton (Austria) 25 (1): 51—64. — English with German summary.

For 125 species of ferns and spermatophytes new square records concerning mainly the squares B4 and C5 (in accordance to the gride system in Davis, Flora of Turkey) are reported.

Zusammenfassung

Erik S. 1985. Neues zur Floristik von Anatolien. — Phyton (Austria) 25 (1): 51—64. — Englisch mit deutscher Zusammenfassung.

Neufunde für Rasterfelder, vor allem für die Felder B4 und C5 (entsprechend dem Gitternetzsystem in Davis, Flory of Turkey) werden mitgeteilt. Die Angaben betreffen 125 Arten von Farnen und Samenpflanzen.

The floristic records presented on the following pages are results of field work in different parts of Turkey and of studies in the Herbarium of the Royal Botanic Garden, Edinburgh (E) and the Herbarium at the Department of Biology, Hacettepe University, Beytepe, Ankara (HUB).

In the Aydos Mountain, a range of Bolkar Mountains, situated in the C5 square (according to the gride system in Davis, Flora of Turkey) field work has been done during the years 1976—1980. This research was supported by the Turkish Scientific Research Council (TÜBİTAK, project number TBAG-268). In addition to the new records of Uslu 1977 and Yurdakulol 1977, 123 plants were found for the first time in the C5 square; 51 of these records are published in Erik 1983, 72 of them are subject of this paper.

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During the research on the flora of the Beytepe Campus of our University, 22 new plant species for the square B4 are specified.

Studies at E (three months in 1982) give the possibility for determinations of *Erysimum*, *Iberis*, *Aethionema* and *Thlaspi* species. 26 new square records are included in this paper.

Finally five other records for different squares from field work and observations at HUB are mentioned.

Plants are regarded as new for a square, if the species is not mentioned for this square in DAVIS nor in the respective papers cited under the references. Material collected by the author is deposited at HUB. The species treated here belong to the families published in the volumes 1—7 of DAVIS' Flora. The numbers in parentheses are relating to this Flora.

Pteridophyta

Equisetaceae

Equisetum fluviatile L. (I: 32)
C5 Konya: Ereğli, near Halkapınar, wet meadows, 1300 m, 21. 6. 1977, ERIK 2230.

E. palustre L. (I: 33)
C5 Konya: Ereğli, Aydos da, Delimahmutlu, Kapız place, wet meadows, 1600 m, 21. 6. 77, ERIK 2178.

Athyriaceae

Cystopteris fragilis (L.) BERNH. (I: 54)
C5 Konya: Ereğli, Aydos da, Delimahmutlu, wet and shady places, 1500 m, 29. 8. 1977, ERIK 2687.

Spermatophyta

Ranunculaceae

Consolida thirkeana (BOISS.) SCHRÖD. (I: 124)
B4 Ankara: Beytepe, near Toprük-Su dam, steppe, 900 m, 31. 5. 1975, ERIK 1229 a.

Adonis aestivalis L. subsp. *aestivalis* (I: 144)
C5 Konya: Ereğli, Aydos da, surroundings of Berendi, limestone slopes, 1600—1700 m, 28. 6. 1976, ERIK 1732.

Ranunculus sericeus BANKS & SOL. (I: 154)
B4 Ankara: Beytepe Campus, slopes of Maslak valley, steppe, 900 m, 4. 7. 1976.

R. caucasicus BIEB. (I: 161) subsp. *subleiocarpus* (SOM. & LEV.) DAVIS
C5 Konye: Ereğli, Aydos da, Meydan yay, alpine meadow, 2500 m, ERIK, 1472.

R. repens L. (I: 166)
C5 Konya: Ereğli, Aydos da, Kayasaray, Bahçeler place, meadow, 1500 m, 30. 8. 1977, ERIK 2719.

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R. argyreus Boiss. (I: 174)
C5 Konya: Ereğli, Aydos da, Kayasaray, Sayıntaş Tepe, marble rocks, 2500 m, 27. 6. 1976, Erik 16871.

Thalictrum lucidum L. (I: 202)
B4 Ankara: Beytepe, near farm, meadow, 850 m, 16. 6. 1975, Erik 1298.

Papaveraceae

Fumaria officinalis L (I: 246)
C5 Konya: Ereğli, Aydos da, İvriz, Subaşı place, marble rocks, 1500 m, 15. 5. 1977, Erik 1818.

F. vailantii Lois. (I: 247)
C5 Konya: Ereğli, Aydos da, serpentine slopes of Delimahmutlu, steppe, 1600 m, 15. 5. 1977, Erik 1818.

Brassicaceae

Raphanus raphanistrum L. (I: 270)
B4 Ankara: Beytepe Campus, calcareous slopes of Maslak valley, steppe, 950 m, 4. 7. 1976, Erik 1470.

Rapistrum rugosum (L.) All (I: 273)
B4 Ankara: Beytepe Campus, W slopes, steppe, 950 m, 20. 6. 1980, Erik 1486.

Cardaria draba (L.) Desv. subsp. *draba*
B4 Ankara: Beytepe Campus, calcareous slopes of Maslak valley, 950 m 13. 5. 1975. Erik 1028.

Isatis aucheri Boiss. (I: 298)
C5 Adana: Saimbeyli, Obrukbaşı yay, *Pinus nigra* — *Cedrus libani* forest, 1600—1700 m, 2. 6. 1981, Erik 3104 — M. Koyuncu.

Iberis taurica DC. (I: 311)
B1 İzmir: Kemalpaşa, Nif da, rocky places in *Pinus nigra* zone, 30. 5. 1966. Alava & al. 4854.

Aethionema stylosum DC. (I: 321)
C5 Niğde: Aladağ, Narpız George, bare rocky ground, 19. 6. 1963, E. Parry 42. Mersin, Bereketli, Bolkar da, 2000 m, July 1906, Siehe. — C10 Hakkari: near ziri, S of Cilo da, rocky slope, 1830 m, 10. 6. 1970 J. Trelavny 1834.

Ae. trinervum (DC.) Boiss. (I: 332)
C10 Hakkari, Mor da, Mount. steppe, stony ridges, 3250 m, 30. 6. 1967 Mitchell 2996.

Ae. oppositifolia (Pers.) Hedge (I: 323)
B7 Erzincan: Munzur silsilesi, Mercan da, Kızıltepe, alpine steppe, 2500 m, 25. 8. 1967, Mitchell 3765.

Ae. iberideum (Boiss.) Boiss. (I: 324)
B2 Kütahya: Murat da, above Banaz, 1900 m, *Pinus nigra* forest, 15. 6. 1965, Coode-Jones 2477 B.

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Ae. capitatum Boiss. & Bal. (I: 327)
B5 Kayseri: Bakır da, above Kisge, 1800—2000 m, 30. 6. 1952, D-19355. (Fruiting inflorescens capitate; leaves linear-oblong, loose).

Ae. diastrophis Bunge (I: 327)
B8 Erzurum: 66 Km from Hinis to Erzurum in Aras, 1650 m, Rocky limestone, 12. 7. 1966, D-46440.

Ae. armenum Boiss. (I: 327)
B9 Van: 8 Km Van to Erçek, 1850 m, shady slopes, 5. 6. 1966, D-44271.

Ae. sintenisii Hausskn. & Bornm. (I: 328)
B6 Malatya: Between Kangal and Hekimhan, 1300 m, on gravel banks, 7. 6. 1960, Stainton & Henderson 5374.

Ae. grandiflorum Boiss. & Hohen. (I: 328)
A7 Gümüşhane: Kap köyü, open rocky slopes, 1300 m, 19. 7. 1967, Tobey 2062. — B8 Erzurum: 14 Km from Erzurum to Pasinler, chalk hills in steppe, 2000 m, 28. 7. 1966, D-47442. — C5 İçel: Foothills of Bolkar Dağları, 1 km SW of Arslanköy, 1900 m, 6. 8. 1976, Peat et al. 10. 4. 1976. — C10 Hakkari: Nehil çayı, 55 km from Hakkari to Yüksekova, igneus slopes, 1600—1700 m, 14. 7. 1966, D-44890.

Ae. coridifolium DC. (I: 329)
C5 Adana: Saimbeyli, Bozoğlan da, above Obruk yay, 1900 m, 7. 7. 1952 D-19701. — C10 Hakkari: Sat da, between Veregöz and Sat Gölü, 2300—2500 m, rocky igneous slopes, 28. 6. 1966, D-45510.

Thlaspi kotschyanum Boiss. & Hohen. (I: 333)
C5 Adana: Saimbeyli, Obrukbaşı yay, open places of *Cedrus* forest, 1700—1800 m, 2. 6. 1981, Erik 3113 a-M. Koyuncu.

T. kurdicum Hedge (I: 338)
C10 Hakkari: Mor da, mount. steppe, stony ridges, 3250 m, 30. 6. 1967, Mitchell 2994.

T. alliaceum L. (I: 339)
A5 Samsun: Bafra, Pınarköy, sandy soil, 70 m, near stream, 9. 4. 1964 Tobey 4745

T. bornmuellerii (Rech.) Hedge (I: 340)
C9 Siirt: above Şırnak, 1400—1500 m, Rocky limestones, 8. 5. 1966, D-42621.

Arabis caucasica Willd. (I: 426) subsp. *brevifolia* (DC.) Cullen
C5 Adana: Obrukbaşı yay, 7 km from Saimbeyli, *Pinus nigra-Cedrus libani* forest, 1700 m, 2. 6. 1981, M. Koyuncu 4290-Erik.

Barbarea trichopoda Hausskn. ex. Bornm. (I: 436)
B4 Ankara: Eskişehir Highway, 8 km from Ankara, steppe, 850 m, 29. 4. 1976, Erik 1438.

Malcolmia africana (L.) R. Br. (I: 460)
B4 Ankara: Eskişehir Highway, 8 km from Ankara, steppe, 850 m, 20. 5. 1975, Erik 1078.

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Erysimum cuspidatum (BIEB.) DC. (I: 468)
C10 Hakkari: Sat da, near Veregöz, 1750—1900 m, meadow, 30. 6. 1966, D-45726. (This specimen has entire and petiolate cauline leaves All the other specimens have auriculate, dentate and sessile leaves.)

E. leucanthemum (STEPH.) FEDTSCH. (I: 469)
A6 Tokal: Yıldızeli, N side of Çamlıbel da, 1500 m, open *Pinus sylvestris*, *Quercus*, *Citrus* woodland, COODE & JONES 1993.

E. pulchellum (WILLD.) GAY (I: 470)
B9 Erzurum: Çakmak da, above Karayazı, mount. steppe, 2500 m, 21. 7. 1966, WATSON 1645.

E. alpestre KOTSCHY ex BOISS. (I: 471)
A8 Erzurum: Kırık to İspir, Pass, Cengi Tepe, S of Çoruh valley, limestone, 2400 m, 24. 8. 1967, MITCHELL 3732. — B10 Kars: NE slope of Agrı, near Serdar Bulak, 2500 m, 27. 5. 1966, D-43718. — C10 Hakkari: Mor da, near Beşirge, Yüksekova pass, limestone slopes, 3150 m, 16. 8. 1967, MITCHELL 3647.

E. kotschyanum GAY (I: 473)
B7 Erzincan: Munzur dağları, Tayran da, Kızıltepe, alpine steppe, 2900 m, 25. 8. 1967, MITCHELL 3774.

E. amasianum HAUSSKN. & BORNM. (I: 474)
B9 Van: 33 km from Gevaş to Tatvan, E of Pelli da, 1940 m, 7. 7. 1966, D-46047.

E. diffusum EHRH. (I: 474)
B2 Kütahya: Emet to Gediz, 1150 m, calcareous banks in steppe, 3. 7. 1962, D-36589.

E. caricum BOISS. (I: 475)
B1 İzmir: N side of Bozdağ, near Ödemiş, upland, 1500 m, 20. 5. 1969 BARCLAY 1519.

E. smyrnaeum BOISS. & BAL. (I: 476)
C10 Hakkari: Sat da, near Veregöz, 1750—1900 m, 30. 6. 1966, D-45730.

E. repandum L. (I: 477)
A5 Çorum: 6 Miles Alaca to Sungurlu, cropfield, 1100 m, 28. 5. 1965, COODE — JONES 1682. — B2 Denizli: Denizli-Tavas, near junction, 800—900 m, cornfield, 10. 6. 1962, DUDLEY, D-35565. — B5 Nevşehir: 3 Km of Ürgüp, 1100 m, Fallowfields, 30. 4. 1966, D-42191 (leaves and fruits 4—5 fid hairy). — C8 Mardin: 2 Km N of Gercüş 900 m, 14. 5. 1966, D-43003.

Caryophyllaceae

Minuartia anatolica (BOISS.) WORON. var. *arachnoidea* MC. NEIL (II: 59)
C5 Konya: Ereğli, calcareous slopes of Berendi, steppe, 1600—1700 m, 29. 6. 1976, ERIK 1715.

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Cerastium perfoliatum L. (II: 78)
C5 Konya: Ereğli, near Halkapınar, wet meadows, 1300 m, 23. 5. 1980, Erik 3072.

Dianthus hymenolepis Boiss. (II: 124)
C5 Konya: Ereğli, Aydos da, İvriz, Subaşı place, marble rocks, 1500 m, 29. 7. 1978, Erik 3027 a.

Bolanthus minuartioides (Jaub. & Spach) Hub.-Mor.
C5 Konya: Ereğli, Aydos da, Delimahmutlu, serpentine slopes, steppe, 1650 m, 26. 6. 1976, Erik 1636.

Silene olympica Boiss. (II: 196)
C5 Niğde, Ulukışla, Alagöl yay, alpine steppe, limestone rocks, 2500 m 12. 7. 1977, Erik 2456.

S. caramanica Boiss. & Heldr. (II: 197)
C5 Niğde: Ulukışla, Yazıgöl yay, alpine steppe, limestone rocks, 2500 m, 28. 8. 1977, Erik 2614.

S. vulgaris (Moench) Garcke var. *vulgaris* (II: 213)
B4 Ankara: Beytepe, Campus, Maslak valley, wet meadows, 950 m, 26. 5. 1975, Erik 1161.

S. rhyncocarpa Boiss (II: 217)
C5 Konya: Ereğli, Aydos da, Delimahmutlu, serpentine slopes, steppe, 1600—1700 m, 14. 7. 1977, Erik 2543.

S. ruscifolia (Hub.-Mor. & Reese) Hub.-Mor. (II: 218)
C5 Konya: Ereğli, Aydos da, Delimahmutlu, serpentine slopes, steppe, 1700 m, 1. 6. 1980, Erik 2941.

S. dichotoma Ehrh. subsp. *sibthopiana* (Reichb.) Rech. (II: 236)
C5 Konya: Ereğli, Aydos da, Kayasaray, Bahçeler place, wet and shady places, 1500 m, 16. 5. 1977, Erik 1887.

S. connoidea L. (II: 241)
C5 Konya: Ereğli, Aydos da, Kayasaray, Çatalkaya, calcareous slopes, 1600 m, 23. 5. 1980, Erik 3077.

Illecebraceae

Herniaria olympica Gay. (II: 294)
C5 Konya: Ereğli Aydos da, Meydan yay, above Berendi, limestone rocks steppe, 2000 m, 19. 6. 1977, Erik 2035.

Polygonaceae

Polygonum amphibium L. (II: 272)
C5 Niğde, Ulukışla, Alagöl yay, alpine meadow, 3000 m, 12. 7. 1977, Erik 2450.

P. laphatifolium L. (II: 273)
C5 Konya: Ereğli, Aydos da, Delimahmutlu, serpentine slopes, meadow, 1500 m, 27. 7. 1978, Erik 2964.

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P. setosum JACQ, (II: 274)
C5 Konya: Ereğli, Aydos da, Delimahmutlu, Kapız, *Abies* forest, 1750 m, 14. 7. 1977, ERIK 2538.

P. cognatum MEISSN. (II: 276)
C5 Konya: Ereğli, Delimahmutlu, serpentine slopes, steppe, 1600 m, 26. 6. 1976, ERIK 1563.

Geraniaceae

Geranium lasiopus BOISS. & KOTSCHY (II: 454)
C5 Konya: Ereğli, Delimahmutlu, Aydos da, Kapız, *Abies* forest, 1800 m, 21. 6. 1977, ERIK 2175.

G. asphodeloides BURM. fil. subsp. *asphodeloides* (II: 469)
B4 Ankara: Surroundings of Beytepe Campus, steppe, 850—1000 m, 10. 9. 1975, ERIK 1375.

Erodium amanum BOISS. & KOTSCHY (II: 484)
C5 Konya, Ereğli, calcareous slopes above Berendi, steppe, 1770 m, 28. 6. 1976, ERIK 1740.

Rhamnaceae

Rhamnus catharticus L. (II: 531)
C5 Konya: Ereğli, Aydos da, Kayasaray, Bahçeler, mixed forest, 1600 m, 15. 6. 1977, ERIK 1892.

Celastraceae

Euonymus verrucosus SCOP. (II: 550)
C5 Konya: Ereğli, Aydos da, Kayasaray, valley slopes, mixed forest, 1500 m, 14. 10. 1977, ERIK 2764.

Fabaceae

Astragalus asterias STEV. ex LEDEB. (III: 62)
C5 Konya: Ereğli, Delimahmutlu, Kapız place, *Abies* forest, 1800 m, 17. 7. 1977, ERIK 1935.

A. macroscepus BOISS. (III: 71)
C5 Konya: Ereğli, Aydos da, Kayasaray, Sayıntaş Tepe, marble rocks, 1800 m, 27. 6. 1976, ERIK 1646.

A. macrourus FISCH. & MEY. (III: 89)
C5 Konya: Ereğli, Aydos da, Kayasaray, Sayıntaş Tepe, marble rocks, alpine steppe, 2000 m, 1. 6. 1978, ERIK 2951.

A. lanigerus DESF. (III: 108)
B4 Ankara: Beytepe, surroundings of farm, steppe, 850 m, 22. 5. 1975, ERIK 1139.

A. pycnocephalus FISCH. var. *seytunensis* (BUNGE) CHAMB. (III: 134)
C5 Niğde: Ulukışla, Aktoprak, *Pinus nigra* forest, 1650 m, 10. 7. 1977, ERIK 2382.

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A. acicularis BUNGE (III: 158)
C5 Konya: Ereğli, Aydos da, Delimahmutlu, Dedeman Mine area, calcareous slopes, degraded *Juniperus excelsa* forest, 1700—1900 m, 27. 7. 1978, ERIK 2986.

A. commagenicus (HAND.-MAZZ.) SIRJ. (III: 139)
C5 Niğde: Ulukışla, Aktoprak, *Juniperus excelsa* forest, 1750 m, 10. 7. 1977, ERIK 2381.

A. zederbaurei STADL. (III: 179)
C5 Niğde: Ulukışla, Darboğaz, *Pinus nigra* forest, 1650 m, 19. 6. 1977, ERIK 2040.

A. aduncus WILLD. (III: 208)
C5 Konya: Ereğli, Delimahmutlu, Aydos da, serpentine slopes, steppe, 1600 m, 26. 6. 1976, ERIK 1528.

A. stenosemioides BORNM. ex MATT. & CHAMB. (III: 221)
C5 Niğde: Ulukışla, Yazıgöl yay, alpine steppe, 3000 m, 10. 7. 1977, ERIK 2336.

A. spruneri BOISS. (III: 238)
C5 Konya, Ereğli, Aydos da, Delimahmutlu, Kapız, degraded *Juniperus excelsa* forest, calcareous slopes, 1700 m, 17. 5. 1977, ERIK 1954.

Vicia noeana ROUTHER ex BOISS. var. *noeana* (III: 307)
B4 Ankara: Beytepe Campus, calcareous slopes of Maslak valley, 900 m, 13. 5. 1975, ERIK 1016.

V. anatolica TURRILL (III: 313)
C5 Adana: Saimbeyli, Obrukbaşı yay, *Pinus nigra* forest, 1600 m, 2. 6. 1981, ERIK 3178, M. KOYUNCU.

V. sativa L. subsp. *nigra* (L.) EHRH. var. *nigra* (III: 319)
C5 Konya: Ereğli, İvriz road, streamsides, wet meadows, 1550 m, 15. 5. 1977, ERIK 1827.

Lathyrus setifolius L. (III: 355)
B4 Ankara: Beytepe, roadsides, steppe, 850—1000 m, 20. 5. 1975, ERIK 1082.

Ononis arvensis L. (III: 381)
B4 Ankara: Beytepe Campus, Maslak valley, wet meadows, 900 m, 10. 9. 1975, ERIK 1380.

Trifolium nigrescens VIV. subsp. *petrisavii* (CLEM.) HOLMBOE (III: 396)
B4 Ankara: Beytepe Campus, Maslak valley, wet meadows, 900 m, 13. 5. 1975, ERIK 1046.

T. rytidosemium BOISS. & HOH. var. *rivulare* (BOISS. & BAL.) ZOH. (III: 401)
C5 Niğde: Ulukışla, Alagöl yay, alpine meadow, 3000 m, 12. 7. 1977, ERIK 2458.

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T. pannonicum JACQ. subsp. *elongatum* (WILLD.) ZOH. (III: 422)
C5 Konya: Ereğli, Aydos da, delimahmutlu, Kapız, streamsides, 1650 m, 21. 6. 1977, ERIK 2209.

Melilotus alba DESR. (III: 451)
C5 Konya: Ereğli, Berendi road, near Kiraman, streamsides, meadows, 1600 m, 13. 7. 1977, ERIK 2499.

Trigonella rhytidocarpa BOISS. & BAL. (III: 477)
C5 Konya: Ereğli, Aydos da, Delimahmutlu, Kapız, streamsides, meadow, 1650 m, 17. 5. 1977, ERIK 1931.

Medicago × *varia* MARTYN (III: 489)
B4 Ankara: Beytepe Campus, slopes of Maslak valley, steppe, 900 m, 4. 6. 1975, ERIK 1240.

Onobrychis oxyodonta BOISS. (III: 577)
C5 Konya: Ereğli, Aydos da, İvriz, marble rocks, 1500 m, 18. 5. 1977, ERIK 1977. — B4 Ankara: Beytepe Campus, Maslak valley, wet meadows, 900 m, 10. 9. 1975, ERIK 1185.

Ebenus cappadocica HAUSSKN. & SIEHE ex BORNM. (III: 594)
B4 Ankara: Beytepe, calcareous hills above the Village, steppe, 1100 m, 9. 6. 1965, ERIK 1283.

Rosaceae

Rosa dumalis BECHST. subsp. *boissieri* (CRÉPIN) NILSSON var. *boissieri* (IV: 126)
C5 Konya: Ereğli, Aydos da, İvriz, streamsides, mixed shrub, 1500 m, 29. 7. 1978, ERIK 3031.

Cotoneaster integerrimus MEDIK. (IV: 130)
C5 Niğde: Ulukışla, road of Yazıgöl Yaylası, *Abies cilicica- Juniperus excelsa* mixed forest, 16. 7. 1981, ERIK 3283.

Crassulaceae

Rosularia radiciflora BOISS. subsp. *radiciflora* (IV: 220)
C5 Konya: Ereğli, Aydos da, İvriz, Subaşı place, marble rocks, 1500 m, 20. 6. 1977, ERIK 2137.

Sedum nanum BOISS. (IV: 238)
C5 Konya: Ereğli, Aydos da, Delimahmutlu, calcareous slopes of Dedeman Mine area, steppe, 1700 m, 2. 4. 1977, ERIK 1800.

Apiaceae

Pastinaca sativa L. (IV: 481)
B4 Ankara: Beytepe Campus, Maslak valley, wet meadows, 900 m, 11. 8. 1975, ERIK 1412.

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Scandix aucheri Boiss. (IV: 327)
C5 Konya: Ereğli, Aydos da, Kayasaray, Deliktaş Tepe, calcareous rocks, 1700—1800 m, 16. 5. 1977, Erik 1869.

Lisaea strigosa (Banks & Sol.) Eig (IV: 529)
B4 Ankara: 8 km from Ankara to Eskişehir, roadsides, steppe, 850 m, 9. 6. 1975, Erik 1277.

Caprifoliaceae

Sambucus nigra L. (IV: 542)
C5 Niğde: Ulukışla, Darbogaz, valley slopes, mixed shrub, 1500 m, 19. 6. 1977, Erik 2020.

Valerianaceae

Valerianella dufresnia Bunge ex Boiss. (IV: 574)
B4 Ankara: Beytepe Campus, calcareous slopes of Maslak valley, 900 m, 13. 5. 1975, Erik 1034.

Asteraceae

Doronicum austriacum Jacq. (V: 143)
B5 Kayseri: Develi, Saraycık, mine area, *Pinus nigra* forest, 1650 m, 3. 6. 1981, Erik 3178-M. Koyuncu.

Senecio cilicicus Boiss. (V: 156)
C5 Konya: Ereğli, Aydos da, Kısaçlı place, calcareous slopes, 1600—2000 m, 22. 6. 1977, Erik 2275.

Anthemis fimbriata Boiss. (V: 199)
C5 Konya: Ereğli, calcareous slopes of Berendi, 1600—1800 m, steppe, 28. 6. 1976, Erik 1710.

A. tinctoria L. var. *pallida* DC. (V: 213)
C5 Konya: Ereğli, Aydos da, Kayasaray, Sayıntaş Tepe, marble rocks, 1600—1900 m, 27. 6. 1976, Erik 1681.

A. coelopoda Boiss. var. *bourgaei* Boiss. (V: 217)
C5 Konya: Ereğli, Aydos da, Delimahmutlu, serpentine slopes, steppe, 1600 m, 26. 6. 1976, Erik 1527.

A. wiedemanniana Fisch. & Mey. (V: 219)
C5 Konya: Ereğli, Gökçeyazı, Ayaztepe, calcareous slopes, steppe, 1600 m, 18. 5. 1977, Erik 1983.

Achillea cucullata (Haussk.) Bornm. (V: 233)
C5 Niğde: Ulukışla, 2 km W ow Maden, steppe, calcareous slopes, 1750 m, 30. 5. 1978, Erik 2885.

Cirsium canum (L.) All. (V: 400)
C5 Konya: Ereğli, near Halkapınar, wet meadows, 1400 m, 29. 8. 1977, Erik 2574.

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C. alatum (GMELIN) BOBROV. subsp. *alatum* (V: 406)
C5 Konya: Ereğli, 5 km N of Berendi, Çobançeşmesi, meadow, 1800 m, 28. 6. 1976, ERIK 1724.

Acroptilon repens (L.) DC. (V: 462)
C5 Konya: Ereğli, calcareous slopes of Berendi, steppe, 1600—1800 m, 13. 7. 1977, ERIK 2490.

Carthamus persicus WILLD. (V: 591)
C5 Konya: Ereğli, Gökçeyazı, Belpınarı Çiftliği, steppe, 1550 m, 14. 7. 1977, ERIK 2512.

Echinops viscosus DC. subsp. *bithinicus* (BOISS.) RECH. fil. (V: 619)
B4 Ankara: Beytepe Campus, W slopes, steppe, 950 m, 14. 7. 1980, ERIK 1514.

Scorzonera suberosa C. KOCH subsp. *suberosa* (V: 638)
C5 Konya: Ereğli, Gökçeyazı, Belpınarı çiftliği, stepp,e 1550 m, 18. 5. 1977, ERIK 1966.

S. tomentosa L. (V: 655)
C5 Konya: Ereğli, calcareous slopes of Berendi, steppe, 1600—1800 m, 28. 6. 1976, ERIK 1705.

Rhagadiolus angulosus (JAUB. & SPACH.) KUPICHA (V: 688)
C5 Konya: Ereğli, Aydos da, Delimahmutlu, degraded *Juniperus excelsa* forest, calcareous slopes, 1600—1700 m, 17. 5. 1977, ERIK 1917.

Gentianaceae

Centaurium erythraea RAFN subsp. *erythraea* (VI: 179)
B4 Ankara: Road of Beytepe Village, near Military School, meadows, 850 m, 10. 9. 1975, ERIK 1378 a.

Cuscutaceae

Cuscuta europaea L. (VI: 228)
C5 Niğde: Ulukışla, Darboğaz, *Abies* forest, 1850 m, 29. 7. 1978, ERIK 3024.

Boraginaceae

Onosma roussaei DC. (VI: 372)
C5 Konya: Ereğli, Aydos da, İvriz, Subaşı place, marble rocks, 1550 m, ERIK 1836.

Soldnaceae

Lycium depressum STOCKS (VI: 447)
C5 Ereğli: Aydos da, Kayasaray, Bahçeler place, mixed forest, 1600 m, 16. 5. 1975, ERIK 1903.

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Verbascum phoeniceum L. (VI: 495)
B5 Kayseri: Develi, Saraycık, mine area, *Pinus nigra* forest, 1650 m, 3. 6. 1981, Erik 3178-M. Koyuncu.

Lamiaceae

Thymus zygioides Griseb. var. *lycaonicus* (Celak.) Ronniger (VII. 363)
C5 Konya Ereğli, Aydos da, Delimahmutlu. serpentine slopes, steppe, 1600—1700 m, Erik 1580. — C5 Niğde: Ulukışla, Aktoprak, yayla road, steppe, 1800—2000 m, 10. 7. 1977, Erik 2377.

Plumbaginaceae

Acantholimon armenum Boiss. & Huet var. *balansae* Boiss. & Huet (VII: 489)
C5 Konya: Ereğli: Gökçeyazı, steppe, 1300 m, 14. 7. 1977, Erik 2511.
A. libanoticum Boiss. (VII: 491)
C5 Konya: Ereğli, Aydos da, Delimahmutlu, Dedeman mine area, degraded *Juniperus excelsa* forest, 1750 m, 27. 7. 1978, Erik 2987.

Plantaginaceae

Plantago holosteum Scop. (VII: 570)
C5 Niğde: Ulukışla, Yazıgöl yay, alpine steppe, 2800 m, 10. 7. 1977, Erik 2406.

Euphorbiaceae

Euphorbia virgata Waldst. & Kit. (VII: 623)
C5 Konya: Ereğli, Aydos da, İvriz, Subaşı place, marble rocks, 1550 m, 19. 6. 1977, Erik 2097.

Fagaceae

Quercus brantii Lindl. (VII: 677)
C5 Konya: Ereğli, Aydos da, Çakıllar, mixed forest, valley slopes, 1500 m, 29. 8. 1977, Erik 2665.

Salicaceae

Salix cinerae L. (VII: 711)
C5 Konya: Ereğli, Aydos da, Çakıllar, mixed forest, valley slopes, 1500 m, 29. 8. 1977, Erik 1650.

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