

## Flora of Başkonuş Mountain (Kahramanmaraş)

Ömer VAROL

Muğla University, Faculty of Science & Arts, Department of Biology, Muğla - TURKEY

Received: 25.01.2001

Accepted: 24.10.2002

**Abstract:** The research area is situated in Kahramanmaraş province. In this study, during the period 1998-1999 1265 plant specimens, 67 families, 268 genera, 520 species and eight subspecies were collected and identified. The total number of specific and infraspecific taxa is 528. Thirty-five of the 528 taxa are new records for the C6 square. The number of endemic plants is 55 (10.42%). The distribution rates of the specimens into phytogeographical regions are as follows: Mediterranean elements 145 (27.46%), Irano-Turanian elements 76 (14.39%) and Euro-Siberian elements 23 (4.36%).

**Key Words:** Başkonuş Mountain, Kahramanmaraş, Flora, Turkey.

### Başkonuş Dağı (Kahramanmaraş) Florası

**Özet:** Araştırma alanı Kahramanmaraş ilinde yer alır. Bu çalışmada, 1998-1999 yıllarında toplanan 1265 bitki örneğinin değerlendirilmesi ile 67 familya, 268 cins, 520 tür ve 8 alttür tespit edilmiştir. Toplam takson sayısı 528 dir. 528 taksondan 35'si C6 karesi için yeni kayıttır. Endemik bitkilerin sayısı 55 (% 10.42)'dir. Taksonların fitocoğrafik bölgelere dağılım oranları şu şekildedir: Akdeniz elementleri 145 (% 27.46), İran-Turan elementleri 76 (% 14.39), Avrupa-Sibirya elementleri 23 (% 4.36).

**Anahtar Sözcükler:** Başkonuş Dağı, Kahramanmaraş, Flora, Türkiye

### Introduction

The study area is located within the boundaries of Kahramanmaraş province. The research area falls within C6 of the grid system adopted by Davis (Davis, 1965-1985). The highest point of the research area is Başkonuş Mountain (1775 m) (Figure 1).

The region was selected for study because of the following reasons:

a-) Although there are some observations on the vegetation Başkonuş Mountain (Varol, 1999), there are no detailed floristic or phytosociological studies from this area;

b-) The study area is a national park;

c-) This region is close to the transitional area between the Mediterranean and Irano-Turanian phytogeographic regions, and it is on the Anatolian Diagonal (Davis et al., 1971).

In the study area bedrock of Mesozoic and Paleozoic phases is present (Pamir, 1975). Common soil formations distinguished in the area are reddish-brown

Mediterranean soils, brown forest soils and brown non-calcareous forest soils (Köy İşl., 1973).

The study area has a Mediterranean climate, the main characteristics of which are: dry summers and warm and rainy winters. The seasonal precipitation regime during the year is winter, spring, autumn and summer. This is a typical first variant of the East Mediterranean climate (Akman, 1990). In the research area, the annual mean temperature is 16.5 °C. The maximum mean temperature (M) is 35.9 °C in August. The minimum mean temperature (m) is 1.2 °C in January. The ombro-thermic diagram of the study area was prepared according to climate data (DMİ, 1984) obtained from the Kahramanmaraş meteorological station (Figure 2).

The research area lies within the Mediterranean phytogeographical region. The three main vegetation types (Varol, 1999) which can be distinguished in the study area are:

1. Macchie vegetation, from 300 to 500 m, consists of evergreen shrubs. Common species include *Quercus*

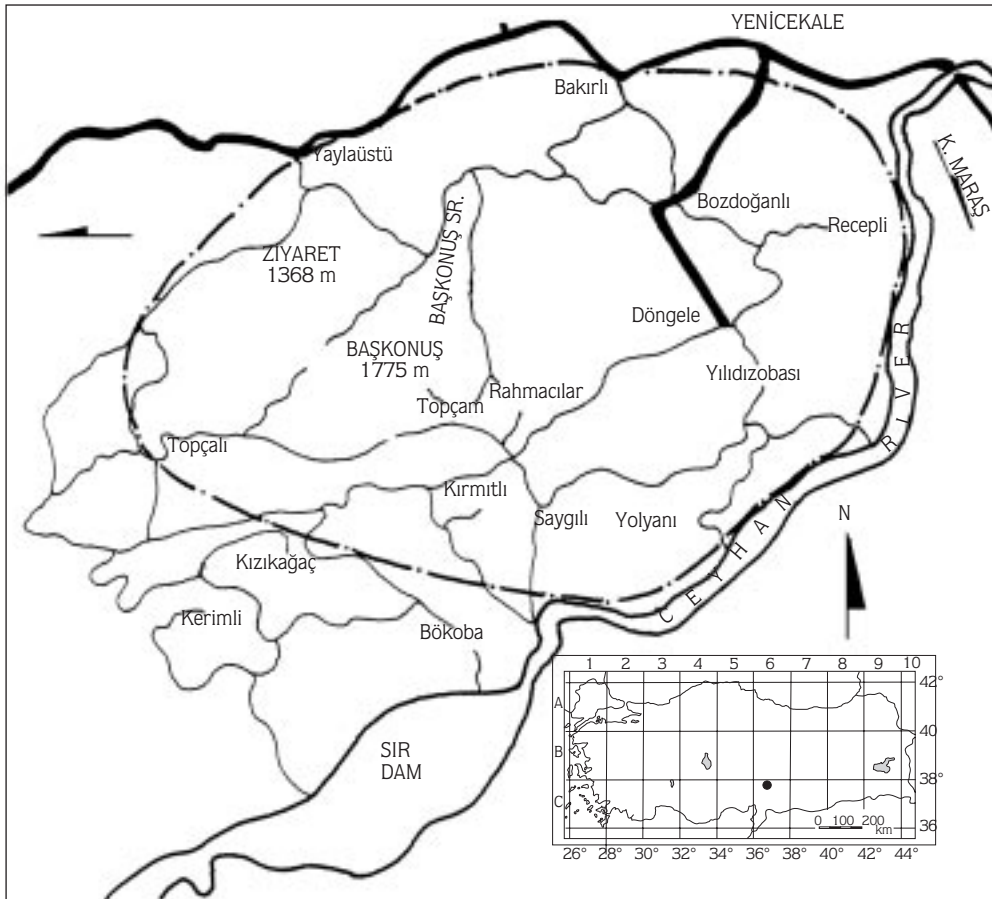


Figure 1. Geographic map of the study area.

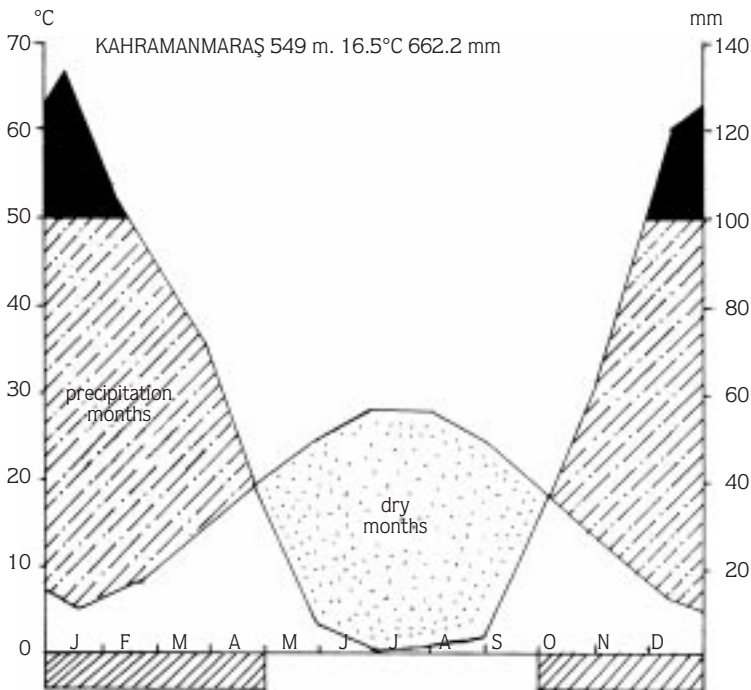


Figure 2. Climatic diagram of Kahramanmaraş.

*coccifera* L., *Styrax officinalis* L., *Arbutus unedo* L., *Pistacia terebinthus* L. subsp. *palaestina* (Boiss.) Engler and *Cotinus coggyria* Scop.

2. Forest vegetation, from 500 to 1700 m, occupies different zones depending on local climatic conditions, altitude and direction. The common tree species in this belt area are *Pinus brutia* Ten., *Pinus nigra* J.F. Arnold subsp. *nigra* var. *caramanica* (Loudon) Rehder, *Cedrus libani* A. Rich., *Abies cilicica* (Antinori & Kotschy) Carr. subsp. *cilicica*, *Taxus baccata* L., *Fagus orientalis* Lipsky, *Ostrya carpinifolia* Scop. and *Alnus glutinosa* (L.) Gaertn. subsp. *glutinosa*.

3. Steppe vegetation, mostly found just above the timberline at 1600 m in the clearing forest which develops with degradations of *Abies* and *Cedrus* forests in the area. The dominant species of this plant belt are *Astragalus plumosus* Willd. var. *plumosus*, *Astragalus angustifolius* Lam. subsp. *angustifolius* var. *angustifolius*, *Teucrium polium* L., *Scutellaria orientalis* L. subsp. *santolinoides* (Hauskn. ex Bornm.) Edmondson and *Cerastium brachypetalum* Pers. subsp. *roeseri* (Boiss. & Heldr.) Nyman

## Materials and Methods

The materials of this investigation comprised 1265 plant specimens collected from Başkonuş Mountain (Kahramanmaraş province) during a vegetation study between 1998 and 1999. The majority of the specimens were identified with the help of the Flora of Turkey (Davis, 1965-1985; Davis et al., 1988; Güner et al., 2000). In cases of uncertainty, the Flora Europaea (Heywood & Tutin, 1964-1981) was used.

The plants are listed in the Appendix. After the name of every species in the list, volume and page number from the Flora of Turkey, the geographical location (the area lies entirely within "C6 Kahramanmaraş, Başkonuş Mountain", which is omitted from the station), location and place where the plant was found, altitude, collection date, the name of the collector and the collection number are listed. An asterisk (\*) in front of a plant name indicates a new record for the C6 grid square. The abbreviations used in the list are as follows: E. Medit.= East Mediterranean element, Medit.= Mediterranean element, Euro.-Sib.= Euro-Siberian element and Ir.-Tur.= Irano-Turanian element. The author name of every species was written according to the Authors of Plant Names (Brummitt & Powell, 1992).

The phytogeographical region is cited unless the species has a cosmopolitan and multiregional distribution.

The findings of this study were examined and then compared with the results of other research (the flora of Dörttyol and Erzin districts (Türkmen and Düzenli, 1998), Bolkar Mountain (Gemici, 1994)) carried out in nearby locations, according to phytogeographical region and large families and genera.

The plant specimens prepared for herbarium collection have been stored in the Department of Biology, Faculty of Science and Arts at Muğla University.

## Results and Discussion

This study was carried out on 1265 plant specimens collected over a period of two years. As a result of the identification of the plant specimens, 67 families, 268 genera, 520 species and eight subspecies were determined. The total number of taxa is 528. Thirty-five plant samples which identified were collected for the first time from the C6 square (Donner, 1990; Duman & Vural, 1991; Varol et al., 1998). Of the species collected, 55 are endemic. Eight of the 520 species are in the Gymnospermae and the other 512 are in the Angiospermae. Of these, 440 species belong to the class Dicotyledones, while the other 72 belong to Monocotyledones.

The species of the study area, categorised according to phytogeographical regions, can be listed as follows: Mediterranean elements 145 (27.46%), Irano-Turanian elements 76 (14.39%), Euro-Siberian elements 23 (4.36%) and the remaining 284 (53.79%) species are multi-regional. The results of the studies conducted in close and similar areas, together with phytogeographical distribution, are presented in Table 1.

This study was carried out in the Mediterranean phytogeographic region and the number of Mediterranean elements is naturally higher than that of the elements of other regions. Compared with the results of flora research in Dörttyol and Erzin, approximately the same proportion (29.9%) of Mediterranean elements was collected. However, the proportion of Euro-Siberian elements in the Dörttyol and Erzin study area is rather high. The presence of Euro-Siberian elements in the location may be due to local microclima and humid climatic conditions in the study area. In the studies on Başkonuş Mountain and Bolkar Mountain, the proportion

Research area	Başkonuş Mountain		Dört Yol and Erzincan		Bolkar Mountain	
	Number	%	Number	%	Number	%
Phytogeographic region						
Mediterranean	145	27.46	188	29.9	444	26.9
Irano-Turanian	76	14.39	37	5.8	230	13.9
Euro-Siberian	23	4.36	65	10.3	81	4.9
Multi-regional	284	53.79	340	54.0	892	54.21
Endemic species	55	10.42	47	7.4	305	18.5

Table 1. Phytogeographic distribution of species and endemism.

Research area	Başkonuş Mountain		Dört Yol and Erzincan		Bolkar Mountain	
	Number	%	Number	%	Number	%
Families						
<i>Fabaceae</i>	77	14.58	77	12.2	181	10.9
<i>Asteraceae</i>	54	10.22	67	10.7	171	10.3
<i>Poaceae</i>	30	5.68	44	7.0	130	7.8
<i>Lamiaceae</i>	30	5.68	38	6.0	117	7.1
<i>Brassicaceae</i>	26	4.92	30	4.8	94	5.7
<i>Boraginaceae</i>	25	4.73	15	2.38	58	3.52
<i>Caryophyllaceae</i>	24	4.54	20	3.2	103	6.25
<i>Scrophulariaceae</i>	23	4.35	21	3.3	67	4.06

Table 2. The largest families within the areas being compared.

Research area	Başkonuş Mountain	Dört Yol and Erzincan	Bolkar Mountain
	Species number	Species number	Species number
Trifolium	13	13	24
Astragalus	13	8	46
Galium	10	6	--
Vicia	8	8	--
Lathyrus	8	--	--
Allium	8	--	22
Verbascum	7	7	22
Veronica	7	--	23
Silene	--	7	34
Euphorbia	--	7	21
Alyssum	--	7	22

Table 3. The richest genera in various research compared.

of Irano-Turanian elements is high. Both of these regions are close to the transitional area between the Mediterranean and Irano-Turanian phytogeographic regions. The high rate of endemism found in the Bolkar Mountain study could be related to the fact that it is mainly covered by steppic areas.

The eight largest families according to number of species in this study and the studies mentioned above are compared in Table 2.

The family *Fabaceae* is the largest in the study area with 77 species. The *Fabaceae* is the largest one in Bolkar Mountain and Dört Yol and Erzincan partly because it is the

second-largest family in Turkey and partly because of the large number of wild leguminous plants growing in cultivated areas. The ordering of the largest families slightly varies between the studies.

The genera containing the highest number of species in this and the other studies are listed in Table 3.

The genera *Trifolium* and *Astragalus* are the largest two in the study area with 13 species. The factors causing this result are predominant forest vegetation and high rainfall in the study area.

Another significant point in Table 3 is that the number of *Astragalus* is higher in Bolkar Mountain. This is

because the steppe area is wider in this study and this area is close to the Irano-Turanian phytogeographic region.

I hope that the study will contribute to the Flora of Turkey.

### Acknowledgement

I would like to thank Prof. Dr. Mecit Vural, Prof. Dr. Hayri Duman, Assoc. Prof. Dr. Zeki Aytaç, Assoc. Prof. Dr. Nezaket Adıgüzel, Yusuf Ziya Kocabaş and Faik Ahmet Karavelioğulları for their contribution in the process of identifying some of the species.

### References

- Akman Y (1990). *İklim ve Biyoiklim*. Ankara: Palme Yayınları.
- Brummitt RK & Powell CE (1992). *Authors of Plant Names*. Kew: Royal Botanic Gardens.
- Davis PH (1965-1985). *Flora of Turkey and the East Aegean Islands*. Vol. 1-9 Edinburgh: Edinburgh Univ Press.
- Davis PH, Harper CP & Hedge IC (1971). *Plant Life of South-West Asia*. Edinburgh: Botanical Society of Edinburgh.
- Davis PH, Mill R, Tan K (1988). *Flora of Turkey and the East Aegean Islands*. Vol. 10 (Suppl.) Edinburgh: Edinburgh Univ Press.
- DMİ Gn.Mdr. (1984). *Ortalama, Ekstrem Sıcaklık ve Yağış Değerleri Bülteni*. Ankara.
- Donner J (1990). Distribution Maps to P.H. Davis Flora of Turkey 1-10. *Linzer Biol Beitr* 22(2): 381-515.
- Duman H & Vural M (1991). C6 Karesi İçin Yeni Floristik Kayıtlar. *Turk J Bot* 15: 201- 213.
- Gemici Y (1994). Bolkar Dağları'nın (Orta Toroslar) Flora ve Vegetasyonu Üzerine Genel Bilgiler. *Turk J Bot* 18(2): 81-89.
- Güner A, Özhatay N, Ekim T & Başer KHC (2000). *Flora of Turkey and the East Aegean Islands*. Vol. 11 Edinburgh: at the Univ Press.
- Heywood VH & Tutin GT (1964-1981). *Flora Europaea* Vol. 1-V. Cambridge : Cambridge Univ Press.
- Köy İşl. Bak. Topraksu Gn. Md. (1973). *Kahramanmaraş İli Toprak Kaynağı Envanter Raporu*.
- Pamir HN (1975). 1/500.000 Ölçekli Türkiye Jeoloji Haritası Açıklaması (Hatay Paftası). *M T A Enst Yay*.
- Türkmen N & Düzenli A (1998). The Flora of Dörtöyl and Erzin Districts of Hatay Province in Turkey. *Turk J Bot* 22(2): 121-141.
- Varol Ö, Kara C & İlçim A (1998). New Floristic Records for C6 Grid Square. *Turk J Bot* 22(4): 299-301.
- Varol Ö (1999). Başkonuş Dağı Vegetasyonu Üzerine Gözlemler. 1<sup>st</sup> *International Symposium on Protection of Natural Environment and Ehrami Karaçam Kütahya*. 121-125.

### APPENDIX

#### FLORISTIC LIST

Divisio: SPERMATOPHYTA  
Subdivisio: GYMNOSPERMAE

#### 1. PINACEAE

1. *Abies cilicica* (Antinori & Kotschy) Carr. subsp. *cilicica* [1:68]  
Picnic area, 1250 m, 8 ix 1998, Varol 3169.  
E. Medit.

#### 2. *Cedrus libani* A.Rich. [1:71]

Picnic area, 1250 m, 8 ix 1998, Varol 3170.

#### 3. *Pinus nigra* J.F. Arnold subsp. *nigra* var. *caramanica* (loudon)

Rehder [11:6]

Picnic area, 1250 m, 8 ix 1998, Varol 3167.

#### 4. *P. brutia* Ten. [1:74]

Bozduman, 550 m, 8 ix 1998, Varol 3168.

#### 2. TAXACEAE

#### 5. *Taxus baccata* L. [1:76]

Below fire tower, 1470 m, 24 vi 1998, Varol 2900.

#### 3. CUPRESSACEAE

#### 6. *Juniperus drupacea* Labill. [1:78]

Picnic area, 1270 m, 25 vi 1998, Varol 2961.

#### 7. *J. oxycedrus* L. subsp. *oxycedrus* [1:80]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2601; Below fire tower, 1470 m, 24 vi 1998, Varol 2902.

8. *J. foetidissima* Willd. [1:82]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2556.

Subdivisio: ANGIOSPERMAE

Classis: DICOTYLEDONES

#### 4. RANUNCULACEAE

9. *Helleborus vesicarius* Aucher [1:96]

Bozduman, roadsides, 550 m, 26 v 1999, Varol 3261. Endemic, E. Medit.

10. *Eranthis hyemalis* (L.) Salisb. [1:97]

Rahmacılar, *Abies-Cedrus* forest, 1375 m, 25 iv 1998, Varol 2137; Sersemtarla, *Abies-Cedrus* forest, 1400 m, 10 iv 1999, Varol 3216.

11. *Delphinium fissum* Waldst. & Kit subsp. *anatolicum* Chowdhuri & P.H.Davis [1:113]

Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2819. Endemic.

12. *Consolida axilliflora* (DC.) Schröd. [1:131]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2521.

13. *Anemone blanda* Schott & Kotschy [1:135]

Rahmacılar, *Abies-Cedrus* forest, 1375 m, 25 iv 1998, Varol 2139; Topçalı, rocky slopes, 1200 m, 10 iv 1999, Varol 3201.

14. *A. coronaria* L. [1:136]

Döngöle, roadsides, 500 m, 10 iv 1999, Varol 3188.

Medit.

15. *Adonis microcarpa* DC. [1:144]

Bozduman, roadsides, 550 m, 25 iv 1998, Varol 2010.

16. *Ranunculus sericeus* Banks & Sol. [1:154]

Rahmacılar, roadsides, 850 m, 26 v 1998, Varol 2296.

Ir.-Tur.

17. *R. constantinopolitanus* (DC.) d'Urv. [1:169]

Bozduman, roadsides, 550 m, 25 iv 1998, Varol 2001; Yıldızobası, roadsides, 650 m, 25 v 1998, Varol 2112.

18. *R. damascenus* Boiss. & Gaill. [1:172]

Döngöle, roadsides, 500 m, 10 iv 1999, Varol 3184.

Ir.-Tur.

19. *R. argyreus* Boiss. [1:174]

Below fire tower, *Abies-Cedrus* forest, 1450 m, 14 iv 1998, Varol 2221; around fire tower, *Abies-Cedrus* forest, 1700 m, 8 vi 1998, Varol 2485.

20. *R. millefolius* Banks & Sol. subsp. *millefolius* [1:185]

Bozduman, roadsides, 550 m, 25 iv 1998, Varol 2012.

21. *R. cornutus* DC. [1:188]

Döngöle, roadsides, 480 m, 26 v 1998, Varol 2266.

22. *R. arvensis* L. [1:189]

Rahmacılar, roadsides, 850 m, 26 v 1998, Varol 2297; Döngöle, roadsides, 500 m, 10 iv 1999, Varol 3181.

#### 5. PAPAVERACEAE

23. *Glaucium leiocarpum* Boiss. [1:217]

Rahmacılar, roadsides, 1150 m, 26 v 1998, Varol 2339.

24. *Papaver fugax* Poir. var. *fugax* [1:228]

Kale, rocky slopes, 1150 m, 23 vii 1998, Varol 3104.

25. *P. rhoeas* L. [1:231]

Yıldızobası, roadsides, 650 m, 25 iv 1998, Varol 2084; opposite Kale, *Abies-Cedrus* forest, 6 vi 1998, 1270 m, Varol 2441; Topçalı, rocky slopes, 1200 m, 10 iv 1999, Varol 3206.

26. *P. dubium* L. [1:233]

Below fire tower, 1470 m, 24 vi 1998, Varol 2859; opposite Kale, *Abies* and *Cedrus* forest, 1270 m, 25 vi 1998, Varol 3053.

27. *Corydalis solida* (L.) Swartz subsp. *tauricola* Cullen & P.H.Davis [1:240]

Yıldızobası, roadsides, 650 m, 25 iv 1998, Varol 2136; Topçalı, rocky slopes, 1200 m, 10 iv 1999, Varol 3200.

Endemic, E.Medit.

28. *Fumaria cilicica* Hausskn. [1:246]

Yıldızobası, roadsides, 650 m, 25 iv 1998, Varol 2097; Topçalı, rocky slopes, 1200 m, 10 iv 1999, Varol 3194.

29. *F. vaillantii* Loisel. [1:247]

Topçalı, rocky slopes, 1200 m, 26 v 1999, Varol 3247.

30. *F. parviflora* Lam. [1:247]

Döngöle, roadsides, 500 m, 10 iv 1999, Varol 3189.

#### 6. BRASSICACEAE (CRUCIFERAE)

31. *Brassica elongata* Ehrh. [1:264]

Below fire tower, *Abies-Cedrus* forest, 1450 m, 14 v 1998, Varol 2220.

32. *Sinapis alba* L. [1:266]

Bozduman, roadsides, 550 m, 25 iv 1998, Varol 2022; Döngöle, roadsides, 480 m, 26 v

1998, Varol 2251.

33. *S. arvensis* L. [1:266]

Below fire tower, *Abies-Cedrus* forest, 1450 m, 24 vi 1998, Varol 2869; Döngöle, roadsides, 500 m, 10 iv 1999, Varol 3178.

34. *Cardaria draba* (L.) Desv. subsp. *draba* [1:286]

Döngöle, roadsides, 620 m, 26 v 1998, Varol 2289.

35. *Isatis candolleana* Boiss. [1:296]

North slope of foundation massif, rocky place, 1450 m, 26 v 1998, Varol 2350.

Endemic, Ir.-Tur.

36. *I. tinctoria* L. subsp. *tomentella* (Boiss.) P.H.Davis [1:301]

Around fire tower, rocky place, 1600 m, 8 vi 1998, Varol 2512.

37. *Aethionema eunomioides* (Boiss.) Bornm. [1:320]

Around fire tower, cliffs-rocky place, 1600 m, 8 vi 1998, Varol 2513.

Endemic

38. *Thlaspi perfoliatum* L. [1:333]

Rahmacılar, roadsides, 550 m, 25 iv 1998, Varol 2128; Below fire tower, 1470 m, 24 vi 1998, Varol 2851; Döngöle, roadsides, 500 m, 10 iv 1999, Varol 3183.

39. *T. microstylum* Boiss. [1:333]  
Opposite Rahmacılar , *Pinus brutia* forest, 900 m, 26 v 1998, Varol 2321.
40. *T. densiflorum* Boiss. & Kotschy [1:335]  
Around fire tower, *Abies-Cedrus* forest clearing, 1800 m, 8 vi 1998, Varol 2507.
41. *T. oxyceras* (Boiss.) Hedge [1:339]  
Below fire tower, *Abies-Cedrus* forest, 1450 m, 14 v 1998, Varol 2219.
42. *Capsella bursa-pastoris* (L.) Medik [1:343]  
Yıldızobası, roadsides, 550 m, 25 iv 1998, Varol 2090.
43. *Neslia apiculata* Fisch. [1:350]  
Bozduman, roadsides, 550 m, 25 iv 1998, Varol 2003.
44. *Fibigia eriocarpa* (DC.) Boiss. [1:357]  
Below fire tower, *Abies-Cedrus* forest, 1470 m, 24 vi 1998, Varol 2920.
45. *Alyssum strictum* Willd. [1:379]  
North slope of foundation massif, 1450 m, 14 v 1998, Varol 2197; Döngöle, roadsides, 500 m, 10 iv 1999, Varol 3186.  
Ir.-Tur.
46. *A. minus* (L.) Rothm. var. *minus* [1:381]  
Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2726.
47. *A. hirsutum* M.Bieb. var. *hirsutum* [1:383]  
Bozduman, roadsides, 550 m, 25 iv 1998, Varol 2013; south slope of foundation massif, rocky place, 1300 m, 26 v 1998, Varol 2358; Topçalı, rocky place, 1000 m, 26 v 1999, Varol 3248.
48. *A. callichroum* Boiss. & P.W.Ball [1:397]  
Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 2987.  
Endemic
49. *Clypeola jonthlaspi* L. [1:410]  
Yıldızobası, roadsides, 550 m, 25 iv 1998, Varol 2107.
50. *Erophila verna* (L.) Chevall. subsp. *verna* [1:421]  
Below fire tower, *Abies-Cedrus* forest, 1450 m, 14 v 1998, Varol 2213.
51. *E. verna* (L.) Chevall. subsp. *spathulata* (Láng) Walters [1:422]  
Topçalı, rocky place, 1000 m, 10 iv 1999, Varol 3195.
52. *Arabis caucasica* Willd. subsp. *brevifolia* (DC.) Cullen [1:427]  
North slope of foundation massif, rocky place, 1450 m, 14 v 1998, Varol 2193; Topçalı, rocky place, 1200 m, 10 iv 1999, Varol 3214.  
E. Medit.
53. *Turritis laxa* (Sibth. & Sm.) Hayek [1:429]  
North slope of foundation massif, rocky place, 1450 m, 26 v 1998, Varol 2354.
54. *Nasturtium officinale* R.Br. [1:430]  
Döngöle, roadsides, 550 m, 26 v 1998, Varol 2280.
55. *Hesperis steveniana* DC. [1:456]  
Around fire tower, *Abies-Cedrus* forest, 1700 m, 8 vi 1998, Varol 2509.
56. *Erysimum goniocaulon* Boiss. [1:469]  
Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2895; opposite Kale, *Abies* forest, 1270 m, 25 vi 1998, Varol 3037.
- 7. CISTACEAE**
57. *Cistus creticus* L. [1:507]  
Bozduman, roadsides, 550 m, 11 vi 1998, Varol 2542 (a).  
E. Medit.
58. *Helianthemum nummularium* (L.) Mill. subsp. *nummularium* [1:512]  
Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2753; opposite Kale, *Abies* forest, 1270 m, 25 vi 1998, Varol 2993.  
\*59. *H. nummularium* (L.) Mill. subsp. *ovatum* (Viv.) Schinz & Thellung [1:513]  
Bozduman, roadsides, 550 m, 11 vi 1998, Varol 2546.
- 8. VIOLACEAE**
60. *Viola alba* Besser subsp. *dehnhardtii* (Ten.) Becker [1:526]  
Rahmacılar, *Abies-Cedrus* forest, 1375 m, 25 iv 1998, Varol 2126; Sersemtarla, *Abies-Cedrus* forest, 1300 m, 10 iv 1999, Varol 3223.
61. *V. kitaibeliana* M.Roem & Schult. [1:531]  
Rahmacılar, *Abies-Cedrus* forest, 1375 m, 25 iv 1998, Varol 2130; Topçalı, rocky place, 1200 m, 10 iv 1999, Varol 3197.
62. *V. heldreichiana* Boiss. [1:531]  
Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2889.  
E. Medit.  
\*63. *V. arvensis* Murray [1:531]  
Bozduman, roadsides, 550 m, 25 iv 1998, Varol 2023.
- 9. POLYGALACEAE**
64. *Polygala pruinosa* Boiss. subsp. *pruinosa* [1:535]  
Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2732.
- 10. CARYOPHYLLACEAE**
65. *Arenaria serpyllifolia* L. [2:28]  
Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2844; opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3036.
66. *A. tremula* Boiss. [2:29]  
Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2757.  
E. Medit.  
\*67. *Minuartia multinervis* (Boiss.) Bornm. [2:54]  
Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3018.
68. *M. mesogitana* (Boiss.) Hand.-Mazz. subsp. *mesogitana* [2:64]  
Kale, rocky place, 1100 m, 6 vi 1998, Varol 2421.  
E. Medit.
69. *M. mesogitana* (Boiss.) Hand.-Mazz. subsp. *kotschyana* (Boiss.) McNeill [2:64]  
Bozduman, roadsides, 550 m, 11 vi 1998, Varol 2614.
70. *M. subtilis* (Fenzl) Hand.-Mazz. [2:66]  
Bozduman, roadsides, 550 m, 11 vi 1998, Varol 2597; Yıldızobası, macchie area, 1050 m, 11 vi 1998, Varol 2677.

71. *M. hybrida* (Vill.) Schischk. subsp. *hybrida* [2:66]

Yıldızobası, roadsides, 650 m, 25 iv 1998, Varol 2086.

72. *Stellaria media* (L.) Vill. subsp. *media* [2:69]

Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2834(b).

73. *S. media* (L.) Vill. subsp. *pallida* (Dumort.) Asch. & Graebn. [2:70]

Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2834(a).

74. *Cerastium dichotomum* L. subsp. *dichotomum* [2:81]

The around of fire tower, *Abies-Cedrus* forest clearing, 1700 m, 8 vi 1998, Varol 2501.

75. *C. glomeratum* Thuill. [2:82]

Kale, rocky place, 1100 m, 6 viii 1998, Varol 2424.

76. *C. brachypetalum* Pers. subsp. *roeseri* (Boiss. & Heldr.) Nyman [2:82]

Bozduman, roadsides, 550 m, 25 iv 1998, Varol 2030; Yıldızobası, 550 m, 25 iv 1998, Varol 2080; around fire tower, *Abies-Cedrus* forest, 1700 m, 8 vi 1998, Varol 2489.

77. *Holosteum umbellatum* L. var. *umbellatum* [2:86]

Döngüle, roadsides, 500 m, 10 iv 1999, Varol 3187.

78. *Dianthus strictus* Banks & Sol. var. *gracilior* (Boiss.) Reeve [2:108]

Kuyuluk, rocky place, 1150 m, 23 vii 1998, Varol 3084; Eşekcimeydani, rocky place, 1300 m, 23 vii 1998, Varol 3122.

79. *D. polycladus* Boiss. [2:108]

Eşekcimeydani, rocky place, 1300 m, 23 vii 1998, Varol 3121; north slope of foundation massif, rocky place, 1400 m, 8 ix 1998, Varol 3161.

E. Medit.

\*80. *D. balansae* Boiss. [2:116]

Kale, rocky place, 1300 m, 23 vii 1998, Varol 3097; opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3065(b); north slope of foundation massif, rocky place, 1365 m, 8 ix 1998, Varol 3133.

Endemic

81. *Velezia rigida* L. [2:137]

Yıldızobası, roadsides, 550 m, 11 vi 1998, Varol 2663.

\*82. *Saponaria mesogitana* Boiss. [2:141]

Bozduman, roadsides, 550 m, 11 vi 1998, Varol 2603; below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2927.

E. Medit.

\*83. *Gypsophila pinifolia* Boiss. & Hausskn. [2:156]

Kuyuluk, rocky place, 1150 m, 23 vii 1998, Varol 3079.

Endemic, Ir.-Tur.

84. *Vaccaria pyramidata* Medik. var. *pyramidata* [2:178]

Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2748.

85. *Silene italica* (L.) Pers. [2:192]

Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2745; below fire tower, 1470 m, 24 vi 1998, Varol 2854.

86. *S. vulgaris* (Moench) Garcke var. *vulgaris* [2:213]

Picnic area, 1200 m, 26 v 1998, Varol 2368.

87. *S. leptoclada* Boiss. [2:215]

Kuyuluk, rocky place, 1150 m, 23 vii 1998, Varol 3086.

Endemic, E. Medit.

88. *S. aegyptiaca* (L.) L.f. subsp. *aegyptiaca* [2:229]

The opposite Rahmacılar, *Pinus brutia* forest 1000 m, 26 v 1998, Varol 2308; around fire tower, *Abies-Cedrus* forest clearing 1700 m, 8 vi 1998, Varol 2507.

11. ILLECEBRACEAE

89. *Herniaria incana* Lam. [2:248]

Topçalı, rocky place, 1250 m, 26 v 1999, Varol 3242.

90. *Scleranthus annuus* L. subsp. *annuus* [2:264]

Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3045.

12. POLYGONACEAE

91. *Rumex acetosella* L. [2:284]

Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2871.

92. *R. tuberosus* L. subsp. *tuberosus* [2:285]

Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3067.

\*93. *R. tuberosus* L. subsp. *horizontalis* (Koch) Rech. [2:286]

South slope of main massif, rocky place, 1300 m, 26 v 1998, Varol 2355.

94. *R. crispus* L. [2:289]

Picnic area, 1250 m, 24 vi 1998, Varol 2825.

13. CHENOPODIACEAE

95. *Chenopodium botrys* L. [2:300]

Kuyuluk, rocky place, 1150 m, 23 vii 1998, Varol 3083.

14. PHYTOLACCACEAE

96. *Phytolacca pruinosa* Fenzl [2:347]

Picnic area, 1250 m, 24 vi 1998, Varol 2826.

E. Medit.

15. HYPERICACEAE

97. *Hypericum lyidium* Boiss. [2:374]

Bozduman, roadsides, 550 m, 11 vi 1998, Varol 2588; Topçalı, rocky place, 1250 m, 26 vi 1999, Varol 3234.

16. MALVACEAE

98. *Alcea digitata* (Boiss.) Alef. [2:413]

Bozduman, roadsides, 550 m, 11 vi 1998, Varol 2529; below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2881.

Ir.-Tur.

17. TILIACEA

99. *Tilia argentea* Desf. ex DC. [2:424]

Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 2991.

Euro.-Sib.

18. LINACEAE

100. *Linum corymbulosum* Rchb. [2:435]

Bozduman, roadsides, 550 m, 11 vi 1998, Varol 2540.

Medit.



101. *L. strictum* L. var. *spicatum* Pers. [2:437]

Bozduman, roadsides, 550 m, 11 vi 1998, Varol 2542(b).

102. *L. pubescens* Banks & Sol. subsp. *pubescens* [2:442]

Bozduman, roadsides, 550 m, 25 iv 1998, Varol 2002; Döngöle, roadsides, 480 m, 26 v 1998, Varol 2254.

E. Medit.

103. *L. bienne* Mill. [2:447]

Döngöle, roadsides, 480 m, 26 v 1998, Varol 2253.

Medit.

#### 19. GERANIACEAE

104. *Geranium lucidum* L. [2:456]

Below fire tower, *Abies* forest 1470 m, 24 vi 1998, Varol 2885; opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3059.

105. *G. purpureum* Vill. [2:456]

Bozduman, roadsides, 550 m, 11 vi 1998, Varol 2656; below fire tower, *Abies* forest 1470 m, 24 vi 1998, Varol 2879; Topçali, macchie area, 1250 m, 26 v 1999, Varol 3225.

106. *G. rotundifolium* L. [2:459]

Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2857; opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 2977.

107. *G. columbinum* L. [2:461]

Yildizobasi, macchie area, 1000 m, 11 vi 1998, Varol 2685.

108. *G. dissectum* L. [2:461]

Bozduman, roadsides, 550 m, 25 iv 1998, Varol 2004.

109. *G. libanoticum* Schenk [2:466]

The around of fire tower, *Abies-Cedrus* forest clearing, 1700 m, 14 v 1998, Varol 2242.

110. *G. pyrenaicum* Burm. [2:470]

Opposite Kale, *Abies-Cedrus* forest, 1300 m, 6 vi.1998, Varol 2440; below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2897.

111. *Erodium cicutarium* (L.) L'Herit subsp. *cutarium* [2:485]

Opposite Kale, *Abies-Cedrus* forest, 1300 m, 6 vi 1998, Varol 2454; Topçali, rocky place, 1000 m, 10 iv 1999, Varol 3211.

#### 20. ZYGOPHYLLACEAE

112. *Tribulus terrestris* L. [2:493]

Döngöle, roadsides, 450 m, 8 ix 1998, Varol 3144.

#### 21. RUTACEAE

\*113. *Haplophyllum thesioides* (Fisch. ex DC.) G.Don [2:499]

Döngöle, roadsides, 620 m, 26 iv 1998, Varol 2293.

#### 22. RHAMNACEAE

114. *Paliurus spina-christi* Mill. [2:523]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2589.

115. *Rhamnus nitidus* P.H.Davis [2:538]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2567; Yildizobasi, macchie area, 1050 m, 11 vi 1998, Varol 2721.

Endemic, E. Medit.

#### 23. ANACARDIACEAE

116. *Cotinus coggyria* Scop. [2:543]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2532.

117. *Pistacia terebinthus* L. subsp. *palaestina* (Boiss.) Engler [2:548]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2545.

#### 24. FABACEAE (LEGUMINOSAE)

118. *Cercis siliquastrum* L.subsp. *siliquastrum* [3:8]

Yildizobasi, macchie area, 1050 m, 11 vi 1998, Varol 2743.

119. *Chamaecytisus drepanolobus* (Boiss.) Rothm. [3:18]

Topçali, rocky place, 1000 m, 26 v 1999, Varol 3252.

Endemic, E. Medit.

120. *Spartium junceum* L. [3:32]

Döngöle, roadside, 620 m, 26 v 1999, Varol 2286.

Medit.

121. *Colutea cilicica* Boiss. & Bal. [3:42]

Yildizobasi, macchie area, 1050 m, 11 vi 1998, Varol 2736.

122. *Astragalus densifolius* Lam. [3:72]

Opposite Kale, *Abies-Cedrus* forest, 1280 m, 6 vi 1998, Varol 2453.

Endemic, Ir.-Tur.

123. *A. distinctissimus* Eig [3:76]

Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2945; Picnic area, 1270 m, 25 vi 1998, Varol 2955.

Endemic, E. Medit.

124. *A. christianus* L. [3:101]

Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3060.

125. *A. angustiflorus* C.Koch subsp. *amanus* (Boiss.) D.F.Chamb. [3:110]

Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 2982.

Endemic, E. Medit.

126. *A. brachystachys* DC. [3:111]

Bozduman, *P. brutia* forest, 550 m, 25 iv 1998, Varol 2050.

Ir.-Tur.

127. *A. leporinus* Boiss. var. *hirsutus* (Post) D.F.Chamb. [3:112]

Bozduman, *P. brutia* forest, 550 m, 25 iv 1998, Varol 2072; opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 2908.

Endemic

128. *A. plumosus* Willd. var. *plumosus* [3:136]

Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3026.

Endemic, Ir.-Tur.

129. *A. cephalotes* Banks & Sol. var. *cephalotes* [3:152]

Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2950(b).

130. *A. cephalotes* Banks & Sol. var. *brevicalyx* Eig [3:152]

Rahmanclar, roadsides, 850 m, 26 v 1998, Varol 2304.

131. *A. aintabicus* Boiss. [3:154]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2543.  
Endemic
132. *A. condensatus* Ledeb. [3:159]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2555; below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2951.  
Endemic, Ir.-Tur.
133. *A. schizopterus* Boiss. [3:230]  
Kale, rocky place, 1300 m, 6 vi 1998, Varol 2399; Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2608; below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 3048.  
Endemic, E. Medit.
134. *A. angustifolius* Lam. subsp. *angustifolius* var. *angustifolius* [3:247]  
Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2950(a).
135. *Psoralea bituminosa* L. [3:264]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2550.  
Medit.
136. *Vicia cracca* L. subsp. *stenophylla* Vel. [3:284]  
Döngüle, roadsides, 620 m, 26 v 1998, Varol 2285; below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2912.
137. *V. ervilia* (L.) Willd. [3:298]  
North slope of main massif, *Abies-Cedrus* forest, 1300 m, 14 v 1998, Varol 2208.
138. *V. noeana* Reuter ex Boiss. var. *noeana* [3:307]  
Picnic area, 1200 m, 26 v 1998, Varol 2367.  
Ir.-Tur.
139. *V. sericocarpa* Fenzl var. *sericocarpa* [3:312]  
Döngüle, roadsides, 620 m, 26 v 1998, Varol 2383.
140. *V. hybrida* L. [3:314]  
Bozduman, *P. brutia* forest, 550 m, 25 iv 1998, Varol 2032.
141. *V. lathyroides* L. [3:317]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2619.
142. *V. sativa* L. subsp. *nigra* (L.) Ehrh. var. *nigra* [3:319]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2558.
143. *V. narbonensis* L. var. *narbonensis* [3:322]  
Picnic area, 1200 m, 26 v 1998, Varol 2366.
144. *Lens orientalis* (Boiss.) Hand.-Mazz. [3:327]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2533; below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2930; Kale, rocky place, 1270 m, 25 vi 1998, Varol 2967.
145. *Lathyrus digitatus* (M.Bieb.) Fiori [3:341]  
Bozduman, *P. brutia* forest, 550 m, 25 iv 1998, Varol 2048.  
E. Medit.
146. *L. variabilis* (Boiss. & Ky.) Maly [3:342]  
Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2728; below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2905.  
E. Medit.
147. *L. laxiflorus* (Desf.) Kuzntze subsp. *laxiflorus* [3:347]  
Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2830.
148. *L. laxiflorus* (Desf.) Kuzntze subsp. *angustifolius* (Post ex Dinsm.) P.H.Davis [3:348]  
Opposite of Rahmaclar, *Pinus brutia* forest, 1000 m, 26 v 1998, Varol 2329; Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2644.  
Endemic, E. Medit.
149. *L. setifolius* L. [3:355]  
Opposite Kale, *Abies-Cedrus* forest, 1200 m, 8 vi 1998, Varol 2479.  
Medit.
150. *L. cicera* L. [3:358]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2054.
151. *L. marmoratus* Boiss. & Bl. [3:360]  
Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2704.
152. *L. aphaca* L. var. *biflorus* Post [3:368]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2561; Yıldızobası, macchie, 1000 m, 11 vi 1998, Varol 2692.
153. *Ononis pubescens* L. [3:379]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2547.  
Medit.
154. *O. viscosa* L. subsp. *breviflora* (DC.) Nyman [3:379]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2577.
155. *O. pusilla* L. [3:380]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2527; Yıldızobası, macchie, 1000 m, 11 vi 1998, Varol 2730.  
Medit.
156. *O. spinosa* L. subsp. *leiosperma* (Boiss.) Sirj. [3:382]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2562.
157. *Trifolium speciosum* Willd. [3:398]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2645; Yıldızobası, macchie area, 1050 m, 11 vi 1998, Varol 2722.
158. *T. campestre* Schreb. [3:404]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2544; Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2661.
159. *T. physodes* Stev. ex M.Bieb. var. *physodes* [3:410]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2596; below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2909.  
Medit.
160. *T. resupinatum* L. var. *resupinatum* [3:412]  
Döngüle, roadsides, 480 m, 26 v 1998, Varol 2255.
161. *T. ochroleucum* Huds [3:419]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2647.

162. *T. stellatum* L. var. *stellatum* [3:424]  
Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2711.
163. *T. lucanicum* Gasp. [3:429]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2523; Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2696.  
Medit?
164. *T. lappaceum* L. [3:430]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2621; Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2667.  
Medit.
165. *T. cherleri* L. [3:431]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2551.  
Medit.
166. *T. arvense* L. var. *arvense* [3:432]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2622; Yıldızobası, macchie, 1050 m, 11 vi 1998, Varol 2689.
167. *T. purpureum* Lois. var. *laxiusculum* (Boiss. & Balansa) Hossain [3:435]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2574; Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2706.
168. *T. scutatatum* Boiss. [3:443]  
Yıldızobası, roadsides, 550 m, 25 iv 1998, Varol 2113.  
E. Medit.
169. *T. pilulare* Boiss. [3:444]  
Yıldızobası, macchie, 1000 m, 11 vi 1998, Varol 2700.
170. *Melilotus officinalis* (L.) Desr. [3:450]  
Picnic area, 1250 m, 20 vi 1998, Varol 2808.
171. *Trigonella brachycarpa* (Fisch.) Moris [3:457]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2594.  
Ir.-Tur.
172. *T. spruneriana* Boiss. subsp. *spruneriana* [3:462]  
Bozduman, *P. brutia* forest, 550 m, 25 iv 1998, Varol 2062.  
Ir.-Tur.
173. *T. kotschyii* Fenzl [3:464]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2572; opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3032.  
Endemic, Ir.-Tur.
174. *T. aurantiaca* Boiss. [3:467]  
North slope of main massif, *Abies-Cedrus* forest, 1400 m, 26 v 1998, Varol 2363.  
Ir.-Tur.
175. *T. crassipes* Boiss. [3:471]  
Topçalı, rocky place, 1000 m, 10 iv 1999, Varol 3212.  
Ir.-Tur.
176. *T. spicata* Sibth. & Sm. [3:477]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2538.  
E. Medit.
177. *Medicago orbicularis* (L.) Bortal. [3:486]  
Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2720.
178. *M. lupulina* L. [3:487]  
Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2923; opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3041.
179. *M. sativa* L. subsp. *sativa* [3:488]  
Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2917; opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3052.
180. *M. coronata* (L.) Bortal [3:496]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2606.  
Medit.
181. *M. minima* (L.) Bortal. var. *minima* [3:498]  
Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3057.
- \*182. *M. rigidula* (L.) All. var. *submitis* (Boiss.) Heyn [3:504]  
Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2676.
183. *Dorcynium graecum* (L.) Ser. [3:514]  
Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2735; below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2913.  
Euxine
184. *D. pentaphyllum* Scop. subsp. *haussknechtii* (Boiss.) Gams [3:517]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2578; opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 2999.  
Endemic, Ir.-Tur.
185. *Lotus corniculatus* L. var. *alpinus* Ser. [3:527]  
Kale, rocky place, 1150 m, 23 vii 1998, Varol 3098.
186. *Hymenocarpus circinnatus* (L.) Savi [3:533]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2571.  
Medit.
187. *Coronilla emerus* L. subsp. *emeroides* (Boiss. & Sprun.) Hrabětova [3:538]  
Below fire tower, *Abies-Cedrus* forest, 1470 m, 24 vi 1998, Varol 2944.
188. *C. scorpioides* (L.) Koch [3:540]  
Bozduman, *P. brutia* forest, 550 m, 23 iv 1998, Varol 2009.
189. *C. parviflora* Willd. [3:542]  
Yıldızobası, macchie area, 1050 m, 11 vi 1998, Varol 2714; below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2863.  
E. Medit.
190. *C. grandiflora* Boiss. [3:542]  
Döngöle, roadsides, 480 m, 26 v 1998, Varol 2265.  
Endemic, E. Medit.
191. *C. varia* L. subsp. *varia* [3:543]  
Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2925.
192. *Onobrychis sulphurea* Boiss. & Balansa var. *pallida* (Boiss. & Ky.) Hedge [3:572]  
Below fire tower, *Abies* forest, 1470 m, 24 vi 1998 Varol 2926; opposite Kale, *Abies-*

*Cedrus* forest, 1270 m, 25 vi 1998, Varol 3056.

Endemic, E. Medit?

193. *O. oxyodonta* Boiss. [3:577]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2549.

194. *O. galegifolia* Boiss. [3:587]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2522.

Ir.-Tur.

## 25. ROSACEAE

195. *Cerasus prostrata* (Labill.) Ser. var. *prostrata* [4:13]

Around fire tower, *Abies-Cedrus* forest clearing, 1700 m, 8 vi 1998, Varol 2502.

Medit.

196. *Rubus sanctus* Schreb. [4:33]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2518.

197. *R. discolor* Weihe & Nees [4:34]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2569.

198. *Potentilla calycina* Boiss. & P.W.Ball [4:48]

Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3063.

Endemic, E. Medit.

199. *P. inclinata* Vill. [4:50]

Yıldızobası, macchie area, 1050 m, 11 vi 1998, Varol 2710.

200. *P. detommassii* Ten. [4:52]

Yıldızobası, macchie area, 1050 m, 11 vi 1998, Varol 2713; below fire tower, *Abies* forest 1470 m, 24 vi 1998, Varol 2849; opposite Kale, 1270 m, 25 vi 1998, Varol 2992.

201. *P. kotschyana* Fenzl [4:55]

North slope of main massif, 1300 m, 14 v 1998, Varol 2185; around fire tower, *Abies-Cedrus* forest clearing, 1700 m, 8 vi 1998, Varol 2492.

E. Medit.

202. *P. adscharica* Somm. & Lev. ex Keller [4:60]

Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3049.

Euxine

203. *P. crantzii* (Crantz) G.Beck ex Fritsch var. *crantzii* [4:61]

Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3030.

Euro.-Sib.

204. *P. reptans* L. [4:64]

Picnic area, 1250 m, 24 iv 1998, Varol 2828.

205. *P. speciosa* Willd. subsp. *speciosa* [4:65]

Kale, rocky place, 1150 m, 23 vii 1998, Varol 3105.

206. *Geum urbanum* L. [4:72]

Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2877.

Euro.-Sib.

207. *Agrimonia eupatoria* L. [4:74]

Picnic area, 1250 m, 8 ix 1998, Varol 3140.

\*208. *Sanguisorba minor* Scop. subsp. *minor* [4:78]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2554; below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2893.

209. *Rosa pulverulenta* M.Bieb. [4:120]

Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2875.

210. *R. canina* L. [4:124]

Rahmaclar, roadsides, 1000 m, 26 v 1998, Varol 2302; below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2870.

211. *Cotoneaster nummularia* Fisch. & C.A.Mey. [4:131]

Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2860.

212. *Crataegus aronia* (L.) Bosc. ex DC. var. *minuta* Browicz [4:139]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2560.

Endemic, E. Medit.

213. *Sorbus umbellata* (Desf.) Fritsch var. *umbellata* [4:154]

Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 2445.

214. *Pyrus syriaca* Boiss. var. *syriaca* [4:164]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2580.

## 26. LYTHRACEAE

215. *Lythrum salicaria* L. [4:175]

Döngöle, roadsides, 450 m, 6 ix 1998, Varol 3146.

Euro.-Sib.

## 27. ONAGRACEAE

216. *Epilobium hirsutum* L. [4:187]

Döngöle, roadsides, 450 m, 6 ix 1998, Varol 3154.

217. *E. minutiflorum* Hausskn. [4:193]

Opposite Kale, *Abies-Cedrus* forest, 1300 m, 8 vi 1998, Varol 2477; picnic area, 1250 m, 8 ix 1998, Varol 3141.

Ir.-Tur.

218. *E. confusum* Hausskn. [4:193]

Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2837.

Ir.-Tur.

## 28. CRASSULACEAE

219. *Rosularia sempervivum* (M.Bieb.) A.Berger subsp. *pestalozzae* (Boiss.) Eggli [11:125]

Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2891.

E. Medit.

220. *Sedum acre* L. [4:231]

Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2839; opposite Kale,

*Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3058.

221. *S. album* L. [4:233]

Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3039.

222. *S. caespitosum* (Cav.) DC. [4:240]

Yıldızobası, roadsides, 550 m, 25 iv 1998, Varol 2096.

223. *S. hispanicum* L. var. *hispanicum* [4:241]

Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2936; opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3066.

224. *S. rubens* L. [4:243]  
Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2848.  
Medit.
- 29. SAXIFRAGACEAE**
225. *Saxifraga cymbalaria* L. var. *cymbalaria* [4:257]  
Kale, rocky place, 6 vi 1998, Varol 2428; Yıldızobası, macchie area, 1050 m, 11 vi 1998, Varol 2681.
- 30. APIACEAE (UMBELLIFERAE)**
226. *Actinolema macrolema* Boiss. [4:291]  
Bozduman, roadsides, 550 m, 11 vi 1998, Varol 2519.  
Ir.-Tur.
227. *Eryngium falcatum* Delar [4:297]  
Yıldızobası, macchie area, 1050 m, 11 vi 1998, Varol 2705.  
Medit.
228. *E. campestre* L. var. *virens* Link [4:303]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2591; Döngöle, roadsides, 500 m, 8 ix 1998, Varol 3155.
229. *Lagoecia cuminoides* L. [4:304]  
Yıldızobası, macchie area, 1050 m, 11 vi 1998, Varol 2717.  
Medit.
230. *Anthriscus nemorosa* (M.Bieb.) Spreng. [4:322]  
North slope of main massif, *Abies-Cedrus* forest, 1300 m, 14 v 1998, Varol 2207.
231. *Scandix iberica* M.Bieb. [4:327]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2021.
232. *Smyrniium connatum* Boiss. & Kotschy [4:338]  
North slope of main massif, *Abies-Cedrus* forest, 1300 m, 14 v 1998, Varol 2361.  
E. Medit.
233. *Lecokia cretica* (Lam.) DC. [4:381]  
Picnic area, 1250 m, 26 v 1999, Varol 3265.
234. *Heptaptera anisoptera* (DC.) Tutin [4:389]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2581.
235. *Bupleurum intermedium* Poir. [4:399]  
Döngöle, roadsides, 620 m, 26 v 1998, Varol 2291.
236. *B. boissieri* Post [4:409]  
North slope of main massif, *Abies-Cedrus* forest, 1300 m, 14 v 1998, Varol 3129.
237. *Cnidium silaifolium* (Jacq.) Simonkai subsp. *orientale* (Boiss.) Tutin [4:429]  
Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2904; Eşekçimeydanı, *Abies* forest, 1300 m, 23 vii 1998, Varol 3124.
238. *Ferula longipedunculata* Peşmen [4:450]  
Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 2451.  
Endemic
239. *Peucedanum depauperatum* Boiss. & Balansa [4:476]  
Yıldızobası, macchie area, 1050 m, 11 vi 1998, Varol 2740.  
E. Medit.
240. *Malabaila lasiocarpa* Boiss. [4:485]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2559; Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2756; picnic area, 1270 m, 25 vi 1998, Varol 2958.  
Endemic, Ir.-Tur.
241. *M. secacul* Banks & Sol. Group B. [4:487]  
Kale, rocky place, 1300 m, 6 viii 1998, Varol 2402.
242. *Tordylium syriacum* L. [4:510]  
Opposite Rahmacılar, *P. brutia* forest, 900 m, 26 v 1998, Varol 2310.  
E. Medit.
243. *Torilis arvensis* (Huds.) Link subsp. *elongata* (Hoffmanns. & Link) Cannon [4:521]  
Kuyuluk, forest clearing, 1150 m, 23 vii 1998, Varol 3073; Eşekçimeydanı, *Abies* forest clearing, 1300 m, 23 vii 1998, Varol 3120.  
Medit.
244. *T. japonica* (Houtt) DC. [4:521]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2586; Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2682; below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2842; opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3035.
245. *T. leptophylla* (L.) Rchb. [4:522]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2045; Yıldızobası, roadsides, 550 m, 25 iv 1998, Varol 2102; Kale, rocky place, 1100 m, 6 vi 1998, Varol 2388; Topçalı, rocky place, 1250 m, 26 v 1999, Varol 3231.
- \*246. *Caucalis platycarpus* L. [4:526]  
Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2660; opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 2978.
247. *Artedia squamata* L. [4:537]  
Döngöle, roadsides, 480 m, 26 v 1998, Varol 2273.
- 31. CORNACEAE**
248. *Cornus sanguinea* L. subsp. *cilicica* (Wangerin) D.F.Chamb. [4:540]  
Picnic area, 1270 m, 25 vi 1998, Varol 2956.  
E. Medit.
- 32. CAPRIFOLIACEAE**
249. *Sambucus ebulus* L. [4:542]  
Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2890.  
Euro.-Sib.
- 33. RUBIACEAE**
250. *Sherardia arvensis* L. [7:724]  
Bozduman, *P. brutia* forest, 550 m, 25 iv 1998, Varol 2024.  
Medit?
251. *Crucianella macrostachya* Boiss. [7:728]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2553; Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2659.

- Medit.  
252. *C. exasperata* Fisch. & C.A.Mey. [7:729]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2613; Yıldızobası, macchie area, 1050 m, 11 vi 1998, Varol 2691.  
Ir.-Tur.  
253. *Asperula arvensis* L. [7:763]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2598; Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2670; below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2931.  
Medit.  
254. *Galium album* Mill. subsp. *amani* Ehrend. & Schönb.-Tem. [7:792]  
Bozduman, *P. brutia* forest, 550 m, 25 iv 1996, Varol 2060; Kale, forest clearing, 1300 m, 23 vii 1998, Varol 3103.  
255. *G. heldreichii* Hal. [7:793]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2651; below fire tower, *Abies* forest, 1470 m, 24 vii 1998, Varol 2829; Topçalı, 1250 m, 26 v 1999, Varol 3243.  
E. Medit.  
\*256. *G. incanum* Sm. subsp. *incanum* [7:817]  
Below fire tower, *Abies* forest, 1470 m, 14 v 1998, Varol 2228; Rahmacılar, *Abies-Cedrus* forest, 1180 m, 26 v 1998, Varol 2338; Kale, *Abies-Cedrus* forest, 1300 m, 6 vi 1998, Varol 2426.  
E. Medit.  
\*257. *G. incanum* Sm. subsp. *libanoticum* Ehrend. [7:819]  
Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3015.  
E. Medit.  
258. *G. canum* Req. ex DC. subsp. *canum* [7:828]  
Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3055.  
E. Medit.  
259. *G. setaceum* Lam. [7:830]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2552.  
260. *G. spurium* L. subsp. *ibicinum* (Boiss. & Hausskn. ex Boiss.) Ehrend. [7:832]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2650; below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2880; opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3061.  
Ir.-Tur.  
261. *G. tricornutum* Dandy [7:832]  
Bozduman, *P. brutia* forest, 550 m, 25 iv 1998, Varol 2016; Yıldızobası, roadsides, 600 m, 25 iv 1998, Varol 2099; Döngüle, roadsides, 500 m, 10 iv 1999, Varol 3185.  
262. *G. tenuissimum* M.Bieb. subsp. *tenuissimum* [7:838]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2610.  
263. *G. peplidifolium* Boiss. [7:839]  
Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2865; opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 2969.  
E. Medit.  
264. *Cruciata taurica* (Pallas ex Willd.) Ehrend. [7:852]  
Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3013.  
Ir.-Tur.  
34. VALERIANACEAE  
265. *Valeriana sisymbriifolia* Vahl [4:556]  
Yıldızobası, roadsides, 550 m, 25 iv 1998, Varol 2116; around fire tower, *Abies-Cedrus* forest clearing, 1700 m, 8 vi 1998, Varol 2487.  
Ir.-Tur.  
266. *V. officinalis* L. [4:556]  
Around fire tower, *Abies-Cedrus* forest clearing, 1700 m, 8 vi 1998, Varol 2494.  
267. *V. dioscoridis* Sm. [4:557]  
Topçalı, rocky place, 1000 m, 10 iv 1999, Varol 3205.  
E. Medit.  
268. *Valerianella coronata* (L.) DC. [4:576]  
Opposite Rahmacılar, *Pinus brutia* forest, 900 m, 26 v 1998, Varol 2331.  
269. *V. muricata* (Stev.) Baxter [4:581]  
Yıldızobası, roadsides, 550 m, 25 iv 1998, Varol 2108.  
35. DIPSACACEAE  
270. *Knautia integrifolia* (L.) Bert. var. *integrifolia* [4:599]  
Picnic area, 1250 m, 26 v 1999, Varol 3264.  
Medit.  
271. *Scabiosa columbaria* L. subsp. *columbaria* var. *columbaria* [4:604]  
Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 2990.  
272. *S. sicula* L. [4:617]  
Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3008.  
Medit.  
273. *S. calocephala* Boiss. [4:618]  
Döngüle, roadsides, 480 m, 26 v 1998, Varol 2263; north slope of main massif, 1300 m, 8 ix 1998, Varol 3163.  
Ir.-Tur.  
274. *Pteroccephalus plumosus* (L.) Coulter [4:622]  
Kale, *Abies-Cedrus* forest, 1300 m, 6 vi 1998, Varol 2407; Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2579; Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2666.  
36. ASTERACEAE (COMPOSITAE)  
275. *Xanthium strumarium* L. subsp. *cavanillesii* (Schouw) D.Löve & P.Dansereau [5:48]  
Döngüle, roadsides, 450 m, 8 ix 1998, Varol 3150.  
276. *Chrysophthalmum montanum* (DC.) Boiss. [5:53]  
Kuyuluk, rocky place, 1150 m, 23 vii 1998, Varol 3088.  
Ir.-Tur.  
277. *Inula vulgaris* (Lam.) Trevisan [5:67]  
Picnic area, 1250 m, 8 ix 1998, Varol 3143.  
Euro.-Sib.

278. *I. heterolepis* Boiss. [5:69]  
Kuyuluk, rocky place, 1150 m, 23 vii 1998, Varol 3087.  
E. Medit.
279. *Pulicaria dysenterica* (L.) Bernh. [5:75]  
Döngöle, roadsides, 450 m, 8 ix 1998, Varol 3152.
280. *Helichrysum plicatum* DC. subsp. *plicatum* [5:92]  
Opposite Kale, *Abies-Cedrus* forest, 1300 m, 6 viii 1998, Varol 2461.
281. *H. arenarium* (L.) Moench subsp. *aucheri* (Boiss.) P.H.Davis & Kupicha [5:95]  
Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3017; Eşekcimeydani, *Abies-Cedrus* forest, 1300 m, 23 vii 1998, Varol 3123.  
Endemic, Ir.-Tur.
282. *Logfia arvensis* (L.) Holub [5:108]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2634; Yıldızobası, macchie area, 1050 m, 11 vi 1998, Varol 2668.
283. *Bellis perennis* L. [5:135]  
Bozduman, *P. brutia* forest, 550 m, 25 iv 1998, Varol 2000.  
Euro.-Sib.
284. *Doronicum orientale* Hoffm. [5:143]  
North slope of main massif, *Abies-Cedrus* forest, 1300 m, 14 v 1998, Varol 2203.
285. *Anthemis cretica* L. subsp. *pontica* (Willd.) Grierson [5:185]  
Opposite Kale, *Abies-Cedrus* forest, 1200 m, 25 vi 1998, Varol 3003.
286. *A. kotschyana* Boiss. var. *discoidea* (Bornm.) Grierson [5:197]  
Opposite Rahmacılar, *P. brutia* forest, 1000 m, 26 v 1998, Varol 2312.
287. *A. hyalina* DC. [5:199]  
Bozduman, roadsides, 550 m, 25 iv 1998, Varol 2046.
288. *Achillea gonioccephala* Boiss. & Balansa [5:242]  
Opposite Kale, *Abies-Cedrus* forest, 1300 m, 6 vi 1998, Varol 2448.  
Endemic, Ir.-Tur.
289. *A. biebersteinii* Afan. [5:250]  
Opposite Kale, *Abies-Cedrus* forest, 1300 m, 25 vi 1998, Varol 3007.  
Ir.-Tur.
- \*290. *Chrysanthemum coronarium* L. [5:254]  
Kale, forest clearing, 1300 m, 6 vi 1998, Varol 2401.  
Medit.
291. *Tanacetum cilicium* (Boiss.) Grierson [5:261]  
Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2866.  
Medit.
292. *T. parthenium* (L.) Schultz Bip. [5:268]  
Picnic area, 1250 m, 24 vi 1998, Varol 2827.
293. *T. cadmeum* (Boiss.) Heywood subsp. *orientale* Grierson [5:282]  
Kale, forest clearing, 1300 m, 6 vi 1998, Varol 2412.  
Endemic, Ir.-Tur.
294. *Tripleurospermum oreades* (Boiss.) Rech.f. var. *tchihatchewii* (Boiss.) E.Hossain [5:299]  
Rahmacılar, forest clearing, 1375 m, 25 iv 1998, Varol 2129; below fire tower, forest clearing, 1600 m, 14 v 1998, Varol 2217.
295. *Cirsium amani* Post [5:375]  
North slope of main massif, 1300 m, 8 ix 1998, Varol 3162.
296. *C. lappaceum* (M.Bieb.) G.Fisch.Waldh. subsp. *anatolicum* Petrak [5:391]  
Kuyuluk, forest clearing, 1150 m, 23 vii 1998, Varol 3090.  
Ir.-Tur.
297. *Picnomon acarna* (L.) Cass. [5:413]  
Kale, *Abies-Cedrus* forest, 1300 m, 23 vii 1998, Varol 3101.  
Medit.
298. *Notobasis syriaca* (L.) Cass. [5:419]  
Döngöle, roadsides, 480 m, 26 v 1998, Varol 2250.  
Medit.
299. *Carduus nutans* L. subsp. *nutans* [5:426]  
Picnic area, 1250 m, 20 vi 1998, Varol 2804.
300. *C. pycnocephalus* L. subsp. *albidus* (M.Bieb.) Kazmi [5:436]  
Döngöle, roadsides, 480 m, 26 v 1998, Varol 2248; Topçalı, roadsides, 1000 m, 26 v 1999, Varol 3238.
301. *Tyrimnus leucographus* (L.) Cass.[5:439]  
Döngöle, roadsides, 480 m, 26 v 1998, Varol 2247.  
Medit.
302. *Centaurea lycopifolia* Boiss. & Kotschy [5:510]  
Bozduman, *Pinus brutia* forest, 550 m, 11 vi 1998, Varol 2530; below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2928.  
Endemic, Medit.
303. *C. cheirolopha* (Fenzl) Wagenitz [5:510]  
Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2672.  
E. Medit.
304. *C. iberica* Trev. ex Spreng. [5:543]  
Döngöle, roadsides, 480 m, 26 v 1998, Varol 2274.
305. *Crupina crupinastrum* (Moris) Vis [5:587]  
Bozduman, *Pinus brutia* forest, 550 m, 11 vi 1998, Varol 2536; Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2752.
306. *Cnicus benedictus* L. var. *benedictus* [5:589]  
Bozduman, *P. brutia* forest, 550 m, 25 iv 1996, Varol 2070.
307. *Echinops orientalis* Trautv. [5:620]  
Kuyuluk, rocky place, 1150 m, 23 vii 1998, Varol 3089.  
Ir.-Tur.
308. *Cichorium intybus* L. [5:627]  
Döngöle, roadsides, 480 m, 26 v 1998, Varol 2249.

309. *Scorzonera cana* (C.A.Mey.) Hoffm. var. *radicosa* (Boiss.) D.F.Chamb. [5:637]

Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3029.

\*310. *S. sublanata* Lipschitz [5:653]

Döngele, roadsides, 620 m, 26 v 1998, Varol 2288.

Medit.

311. *S. kotschyi* Boiss. [5:656]

Bozduman, *P. brutia* forest, 550 m, 25 iv 1998, Varol 2061.

Ir.-Tur.

312. *Tragopogon longirostris* Bisch. ex Schultz Bip. var. *longirostris* [5:659]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2585.

313. *Leontodon asperrimus* (Willd.) J.Ball [5:674]

Kale, forest clearing, 1100m, 6 vi 1998, Varol 2383; Topçalı, macchie area, 1000 m, 26 v 1999, Varol 3239.

Ir.-Tur.

314. *Rhagadiolus stellatus* (L.) Gaertner var. *stellatus* [5:687]

Bozduman, *P. brutia* forest, 550 m, 25 iv 1998, Varol 2029.

Medit.

\*315. *Hieracium subvandasii* (Bornm. & Zahn) Sell & West [5:729]

Kale, *Abies-Cedrus* forest, 1300 m, 23 vii 1998, Varol 3096.

316. *Pilosella piloselloides* (Vill.) Sojak subsp. *megalomastix* (NP.) Sell & West [5:753]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2576.

317. *Cicerbita mulgedioides* (Schultz Bip. ex Vis. & Panc.) Beauverd [5:770]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2657; below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2901.

318. *Steptorhamphus tuberosus* (Jacq.) Grossh. [5:775]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2534.

319. *Scariola viminea* (L.) F.W.Schmidt [5:783]

Eşekcimeydanı, *Abies-Cedrus* forest, 1150 m, 23 vii 1998, Varol 3113.

320. *Lapsana communis* L. subsp. *intermedia* (M.Bieb.) Hayek [5:787]

Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2718; below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2838.

321. *Taraxacum crepidiforme* DC. subsp. *crepidiforme* [5:802]

North slope of main massif, *Abies-Cedrus* forest, 1365 m, 8 ix 1998, Varol 3130.

Ir.-Tur.

322. *T. revertens* G.Hagl. [5:805]

Topçalı, rocky place, 1200 m, 10 iv 1999, Varol 3202.

Endemic, Ir.-Tur.

323. *Chondrilla juncea* L. var. *juncea* [5:812]

North slope of main massif, *Abies-Cedrus* forest, 1365 m, 8 ix 1998, Varol 3159.

324. *Crepis reuterana* Boiss. subsp. *reuterana* [5:827]

Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 2988(b).

E. Medit.

325. *C. alpina* L. [5:829]

Döngele, roadsides, 480 m, 26 v 1998, Varol 2252.

326. *C. foetida* L. subsp. *rhoeadifolia* (M.Bieb.) Celak [5:832]

Suluyayla, roadsides, 1200 m, 22 xi 1998, Varol 3175.

327. *C. foetida* L. subsp. *commutata* (Spreng.) Babcock [5:833]

Eşekcimeydanı, *Abies-Cedrus* forest, 1300 m, 23 vii 1998, Varol 3119.

328. *C. sancta* (L.) Babcock [5:834]

Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2850; opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3020.

### 37. CAMPANULACEAE

329. *Campanula strigosa* Banks & Sol. [6:47]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2564.

E. Medit?

330. *C. reuterana* Boiss. & P.W.Ball [6:49]

North slope of main massif, *Abies-Cedrus* forest, 1300 m, 26 v 1998, Varol 2355.

Ir.-Tur.

331. *Michauxia campanuloides* L'Herit. ex Aiton [6:81]

Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2738.

Medit.

332. *Legousia falcata* (Ten.) Fritsch [6:84]

Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2712; below fire tower, *Abies-Cedrus* forest, 1470 m, 24 vi 1998, Varol 2836.

E. Medit.

333. *L. speculum-veneris* (L.) Chaix [6:85]

Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3027.

Medit.

334. *L. pentagonia* (L.) Thellung [6:85]

Döngele, roadsides, 550 m, 26 v 1998, Varol 2281.

E. Medit.

### 38. ERICACEAE

335. *Arbutus unedo* L. [6:99]

Yıldızobası, macchie area, 600 m, 26 v 1999, Varol 3262.

\*336. *Monotropa hypopithys* L. [6:107]

Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2933.

### 39. PRIMULACEAE

337. *Cyclamen pseud-ibericum* Hildebr. [6:132]

Yıldızobası, macchie area, 600 m, 25 iv 1998, Varol 2125; Topçalı, macchie area, 1250 m, 10 iv 1999, Varol 3207.

Endemic, E. Medit.

338. *Anagallis arvensis* L. var. *caerulea* (L.) Gouan [6:140]

Bozduman, *P. brutia* forest, 550 m, 25 iv 1998, Varol 2008.



## 40. STYRACACEAE

339. *Styrax officinalis* L. [6:144]

Picnic area, 1250 m, 20 vi 1998, Varol 2817.

## 41. OLEACEAE

340. *Jasminum fruticans* L. [6:145]Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2563; Yildizobasi, macchie area, 1000 m, 11 vi 1998, Varol 2669.

Medit.

341. *Fontanesia phylliraeoides* Labill. subsp. *phylliraeoides* [6:146]Bozduman, *P. brutia* forest, 550 m, 25 iv 1998, Varol 2011.

E. Medit.

342. *Fraxinus ornus* L. subsp. *cilicica* (Lingelsh.) Yaltırık [6:148]Opposite Kale, *Abies-Cedrus* area, 1270 m, 25 vi 1998, Varol 2979.

Endemic, E. Medit.

343. *Olea europaea* L. var. *sylvestris* (Mill.) Lehr. [6:156]

Yildizobasi, macchie area, 1000 m, 11 vi 1998, Varol 2703.

Medit.

344. *Phillyrea latifolia* L. [6:157]

Yildizobasi, macchie area, 1000 m, 11 vi 1998, Varol 2697.

Medit.

## 42. GENTIANACEAE

345. *Centaurium pulchellum* (Swartz) Druce [6:180]Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2524.

## 43. CONVULVACEAE

346. *Convolvulus cantabrica* L. [6:206]

Topçalı, macchie area, 1000 m, 26 v 1999, Varol 3254.

347. *C. arvensis* L. [6:213]Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2595; Eşekçimeydanı, *Abies-**Cedrus* forest, 1300 m, 23 vii 1998, Varol 3118.348. *C. betonicifolius* Mill. subsp. *betonicifolius* [6:216]

Döngüle, roadsides, 480 m, 26.v.1998, Varol 2256; Yildizobasi, macchie area, 1000 m, 11 vi 1998, Varol 2739.

## 44. BORAGINACEAE

349. *Heliotropium circinatum* Griseb. [6:250]

Döngüle, roadsides, 450 m, 8 ix 1998, Varol 3156.

Ir.-Tur.

350. *Rochelia cancellata* Boiss. & Balansa [6:262]Opposite Kale, *Abies-Cedrus* forest, 1200 m, 8 vi 1998, Varol 2472.

Ir.-Tur.

\*351. *Myosotis stricta* Link ex M.Roem. & Schultes [6:271]Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2631.

Euro.-Sib.

352. *M. refracta* Boiss. subsp. *refracta* [6:273]North slope of main massif, *Abies-Cedrus* forest, 1280 m, 26 v 1998, Varol 2340.

Medit.

353. *M. alpestris* F.W.Schmidt subsp. *alpestris* [6:275]North slope of main massif, *Abies-Cedrus* forest, 1300 m, 14 v 1998, Varol 2188;Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2641; opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3043.354. *Paracaryum reuteri* Boiss. & Hausskn. [6:293]Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3014.

Endemic, E. Medit?

355. *Cynoglossum montanum* L. [6:309]

Kale, rocky place, 1150 m, 23 vii 1998, Varol 3102.

Euro.-Sib.

356. *Buglossoides arvensis* (L.) Johnston [6:316]

Döngüle, roadsides, 500 m, 10 iv 1999, Varol 3179; Topçalı, macchie area, 1250 m, 26 v 1999, Varol 3232.

357. *B. incrassata* (Guss.) Johnston [6:317]Kale, *P. brutia* forest, 1100 m, 6 vi 1998, Varol 2404.

Medit.

358. *Echium italicum* L. [6:321]Opposite Kale, *Abies-Cedrus* forest, 1300 m, 6 vi 1998, Varol 2452.

Medit?

359. *E. plantagineum* L. [6:322]Yildizobasi, *P. brutia* forest, 550 m, 25 iv 1998, Varol 2078.

Medit.

360. *Onosma sericeum* Willd. [6:339]

Rahmacılar, roadsides, 850 m, 26 v 1998, Varol 2301.

Ir.-Tur.

\*361. *O. decorticans* H.Riedl [6:358]Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2582.

Ir.-Tur.

362. *O. albo-roseum* Fisch. & C.A.Mey. subsp. *albo-roseum* var. *albo-roseum* [6:364] Around fire tower, *Abies-Cedrus* forest clearing, 1700 m, 8 vi 1998, Varol 2505; Topçalı, roadsides, 965 m, 10 iv 1999, Varol 3193.

Ir.-Tur.

363. *O. armenum* DC. [6:372]Around fire tower, *Abies-Cedrus* forest clearing, 1700 m, 8 vi 1998, Varol 2483.

Endemic

364. *O. giganteum* Lam. [6:375]

Picnic area, 1250 m, 8 ix 1998, Varol 3142.

E. Medit.

\*365. *Symphytum orientale* L. [6:383]Yildizobasi, roadsides, 550 m, 25 iv 1998, Varol 2087; north slope of main massif, *Abies-Cedrus* forest, 1300 m, 14 v 1998, Varol 2209.

Euro.-Sib.

366. *S. brachycalyx* Boiss. [6:384]Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3054.

E. Medit.

367. *Brunnera orientalis* (Schenk) Johnston [6:388]

Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2882; Topçalı, macchie area, 1000 m, 10 iv 1999, Varol 3215.

Euxine

368. *Anchusa leptophylla* M.Roem. & Schultes subsp. *incana* (Ledeb.) D.F.Chamb. [6:390]

Below fire tower, *Abies* forest, 1450 m, 14 v 1998, Varol 2227.

Endemic, Ir.-Tur?

\*369. *A. officinalis* L. Group b [6:391]

North slope of main massif, *Abies-Cedrus* forest, 1400 m, 26 v 1998, Varol 2365.

370. *A. undulata* L. subsp. *hybrida* (Ten.) Coutinho [6:392]

Opposite Kale, *Abies-Cedrus* forest, 1300 m, 6 vi 1998, Varol 2450.

Medit.

371. *A. strigosa* Labill. [6:396]

Bozduman, *P. brutia* forest, 550 m, 25 iv 1998, Varol 2042.

\*372. *Nonea melanocarpa* Boiss. [6:408]

Bozduman, *P. brutia* forest, 550 m, 25 iv 1998, Varol 2056; north slope of main massif, *Abies-Cedrus* forest, 1400 m, 14 v 1998, Varol 2205.

Ir.-Tur.

\*373. *N. caspica* (Willd.) G.Don [6:409]

Bozduman, roadsides, 550 m, 25 iv 1998, Varol 2034.

Ir.-Tur.

#### 45. SCROPHULARIACEAE

374. *Verbascum oreophilum* C.Koch var. *joannis* (Bordz.) Hub.-Mor. [6:490]

Eşekçimeydanı, *Abies-Cedrus* forest, 1300 m, 23 vii 1998, Varol 3125.

Ir.-Tur.

375. *V. meinckeanum* Murb. [6:492]

Topçalı, macchie area, 1000 m, 26 v 1999, Varol 3256.

Endemic, E. Medit.

\*376. *V. flavidum* (Boiss.) Freyn & Bornm. [6:497]

North slope of main massif, *Abies-Cedrus* forest, 1400 m, 14 v 1998, Varol 2211.

Euro-Sib.

\*377. *V. pinetorum* (Boiss.) Kuntze [6:495]

Topçalı, macchie area, 1000 m, 26 v 1999, Varol 3257.

Endemic, E. Medit.

378. *V. amanum* Boiss. [6:559]

Below fire tower, *Abies-Cedrus* forest, 1470 m, 24 vi 1998, Varol 2924; Kale, *Abies-Cedrus* forest, 1300 m, 23 vii 1998, Varol 3106.

Endemic, E. Medit.

379. *V. galilaeum* Boiss. [6:561]

Suluyayla, roadsides, 1000 m, 22 xi 1998, Varol 3174.

E. Medit.

380. *V. songaricum* Schrenk ex Fisch. & C.A.Mey. subsp. *subdecurrens* Hub.-Mor. [6:578]

Döngüle, roadsides, 480 m, 26 v 1998, Varol 2268.

Endemic, Ir.-Tur.

381. *Scrophularia rimarum* Bornm. [6:627]

Beneath of fire tower, *Abies* forest, 1450 m, 14 v 1998, Varol 2216.

382. *S. libanotica* Boiss. var. *australis* R.R.Mill [6:630]

Yıldızobası, roadsides, 550 m, 25 iv 1998, Varol 2118.

Endemic, Ir.-Tur.

383. *Anarrhinum orientale* Benth [6:648]

Kuyuluk, rocky place, 1150 m, 23 vii 1998, Varol 3076.

Ir.-Tur.

384. *Linaria chalepensis* (L.) Mill. var. *chalepensis* [6:665]

Bozduman, *P. brutia* forest, 550 m, 25 iv 1998, Varol 2006.

E. Medit.

385. *L. kurdica* Boiss. & Hohen. subsp. *kurdica* [6:666]

North slope of main massif, *Abies-Cedrus* forest, 1365 m, 8 ix 1998, Varol 3134.

Ir.-Tur.

386. *L. simplex* (Willd.) DC. [6:670]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2655.

Medit?

387. *Kickxia lanigera* (Desf.) Hand.-Mazz. [6:676]

Bozduman, roadsides, 550 m, 22 xi 1998, Varol 3173.

Medit?

388. *Veronica hispidula* Boiss. & Huet subsp. *hispidula* [6:709]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2611; opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 2995.

Ir.-Tur.

389. *V. praecox* All. [6:715]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2646.

390. *V. cymbalaria* Bodard. [6:723]

Topçalı, macchie area, 1200 m, 10 iv 1999, Varol 3198.

Medit.

391. *V. anagallis-aquatica* L. [6:726]

Döngüle, roadsides, 620 m, 26 v 1998, Varol 2284.

392. *V. cinerea* Boiss. & Balansa [6:739]

Around fire tower, *Abies-Cedrus* forest clearing, 1700 m, 14 v 1998, Varol 2243; opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3047.

Endemic, E. Medit?

393. *V. macrostachya* Vahl subsp. *macrostachya* [6:742]

Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2845; opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3065.

E. Medit.

\*394. *V. pectinata* L. var. *glandulosa* Riek ex M.A.Fischer [6:745]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2632; Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2684.

395. *Parentucellia latifolia* (L.) Caruel subsp. *flaviflora* (Boiss.) Hand.-Mazz. [6:767]  
Yıldızobası, roadsides, 550 m, 25 iv 1996, Varol 2103.
396. *Bellardia trixago* (L.) All. [6:768]  
Döngüle, roadsides, 480 m, 26 v 1998, Varol 2270; Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2587.
- 46. OROBANCHACEAE**
397. *Phelypaea coccinea* (M.Bieb.) Poir. [7:1]  
Opposite Rahmacılar, *P. brutia* forest, 900 m, 26 v 1998, Varol 2332.  
Ir.-Tur.
398. *Orobanche nana* Noë ex G.Beck [7:7]  
North slope of main massif, *Abies-Cedrus* forest, 1300 m, 26 v 1998, Varol 2346.
399. *O. minor* Sm. [7:17]  
Rahmacılar, roadsides, 850 m, 26 v 1998, Varol 2295.
- 47. ACANTHACEAE**
400. *Acanthus hirsutus* Boiss. [7:25]  
Döngüle, roadsides, 620 m, 26 v 1998, Varol 2294.  
Endemic
- 48. LAMIACEAE (LABIATAE)**
401. *Ajuga orientalis* L. [7:43]  
Yıldızobası, roadsides, 550 m, 25 iv 1998, Varol 2117.
402. *A. chamaepitys* (L.) Schreb. subsp. *laevigata* (Banks & Sol.) P.H.Davis [7:49]  
North slope of main massif, *Abies-Cedrus* forest, 1300 m, 14 v 1998, Varol 2178; Rahmacılar, roadsides, 1000 m, 26 v 1998, Varol 2300.  
Ir.-Tur.
403. *Teucrium multicaule* Montbret & Aucher ex Benth [7:58]  
Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2724.  
Ir.-Tur.
404. *T. chamaedrys* L. subsp. *chamaedrys* [7:63]  
Eşekçimeydani, *Abies-Cedrus* forest, 1300 m, 23 vii 1998, Varol 3110.
- Euro.-Sib.
405. *T. polium* L. [7:69]  
Yıldızobası, macchie area, 600 m, 26 v 1999, Varol 3263
406. *Scutellaria rubicunda* Hornem. subsp. *subvelutina* (Rech.f.) Edmondson [7:86]  
Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 2980.  
E. Medit.
407. *S. salviifolia* Benth [7:87]  
Yıldızobası, macchie area, 1050 m, 11 vi 1998, Varol 2734; opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3011.  
Endemic
408. *S. heterophylla* Montbret & Aucher ex Benth [7:88]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2537.  
E. Medit.
409. *S. orientalis* L. subsp. *santolinoides* (Hauskn. ex Bornm.) Edmondson [7:97]  
Below fire tower, *Abies* forest, 1600 m, 25 vii 1998, Varol 3010; opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3028.  
Endemic, Ir.-Tur.
410. *Phlomis viscosa* Poir. [7:113]  
Topçalı, macchie area, 1000 m, 26 v 1999, Varol 3258.  
E. Medit.
411. *Lamium garganicum* L. subsp. *reniforme* (Montbret & Aucher ex Benth) R.R.Mill [7:132]  
Below fire tower, *Abies* forest, 1600 m, 14 v 1998, Varol 2223; Kale, *Abies-Cedrus* forest, 1300 m, 6 vi 1998, Varol 2435.
412. *L. macrodon* Boiss. & Huet [7:139]  
Below fire tower, *Abies* forest, 1470m, 24 vi 1998, Varol 2833; Topçalı, macchie area, 1000 m, 10 iv 1999, Varol 3199.  
Ir.-Tur.
413. *L. truncatum* Boiss. [7:143]  
Picnic area, 1200 m, 26 v 1998, Varol 2370; beneath fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2831.  
E. Medit.
414. *Stachys cretica* L. subsp. *mersinaea* (Boiss.) Rech.f. [7:219]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2583; opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 2974.  
Endemic, E.Medit.  
\*415. *S. petrokosmos* Rech.f. [7:226]  
Topçalı, rocky place, 1000 m, 26 v 1999, Varol 3255.  
Endemic, E. Medit.
416. *S. iberica* M.Bieb. subsp. *stenostachya* (Boiss.) Rech.f. [7:245]  
Yıldızobası, macchie area, 1050 m, 11 vi 1998, Varol 2687; Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3064.  
Ir.-Tur.  
\*417. *Nepeta cadmea* Boiss. [7:268]  
Picnic area, 1270 m, 25 vi 1998, Varol 2959; Eşekçimeydani, *Abies-Cedrus* forest, 1300 m, 23 vii 1998, Varol 3128.  
Endemic, E. Medit.
418. *N. cilicia* Boiss. [7:280]  
Around fire tower, *Abies-Cedrus* forest, 1700 m, 8 vi 1998, Varol 2515.  
E. Medit.
419. *N. concolor* Boiss. & Heldr. [7:281]  
North slope of main massif, *Abies-Cedrus* forest, 1300 m, 8 ix 1998, Varol 3165.  
Endemic, E. Medit.
420. *Prunella orientalis* Bornm. [7:296]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2637; Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2673.
421. *Origanum laevigatum* Boiss. [7:312]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2600; Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2733.  
E. Medit.
422. *Clinopodium vulgare* L. subsp. *arundanum* (Boiss.) Nyman [7:330]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2636; opposite Kale, *Abies-*

*Cedrus* forest, 1270 m, 25 vi 1998, Varol 2976.

423. *Micromeria myrtifolia* Boiss. & Hohen. [7:341]

Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2695.

E. Medit.

424. *M. cremnophila* Boiss. & Heldr. subsp. *amana* (Rech.f.) P.H.Davis [7:343]

Kale, rocky place, 1100 m, 6 vi 1998, Varol 2395.

Endemic, E. Medit.

425. *Thymra spicata* L. var. *spicata* [7:383]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2525.

E. Medit.

426. *Mentha longifolia* (L.) Hudson subsp. *typhoides* (Briq.) Harley var. *typhoides* [7:390]

Döngöle, roadsides, 450 m, 8 ix 1998, Varol 3148.

427. *Ziziphora capitata* L. [7:397]

Opposite Kale, *Abies-Cedrus* forest, 1300 m, 8 vi 1998, Varol 2468.

428. *Salvia tomentosa* Mill. [7:414]

Bozduman, *P. brutia* forest, 550 m, 25 iv 1998, Varol 2014; opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 2984.

Medit.

429. *S. pilifera* Montbret & Aucher ex Benth. [7:417]

Yıldızobası, macchie area, 1050 m, 11 vi 1998, Varol 2716; opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 2975.

Endemic, Ir.-Tur.

430. *S. virgata* Jacq. [7:454]

Eşekçimeydanı, *Abies-Cedrus* forest, 1300 m, 23 vii 1998, Varol 3111.

Ir.-Tur.

#### 49. PLUMBAGINACEAE

431. *Plumbago europaea* L. [7:464]

Döngöle, roadsides, 450 m, 8 ix 1998, Varol 3153.

#### 50. PLANTAGINACEAE

432. *Plantago lanceolata* L. [7:513]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2565.

#### 51. ELAEAGNACEAE

433. *Elaeagnus angustifolia* L. [7:534]

Döngöle, roadsides, 620 m, 26 v 1998, Varol 2287.

#### 52. SANTALACEAE

434. *Thesium bergeri* Zucc. [7:538]

Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2702.

E. Medit.

435. *T. billardieri* Boiss. [7:543]

Opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3034.

Ir.-Tur.

#### 53. LORANTHACEAE

436. *Viscum album* L. subsp. *abietis* (Wiesb.) Abromeit [7:548]

Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2887.

#### 54. ARISTOLOCHIACEAE

437. *Aristolochia maurorum* L. [7:558]

Bozduman, *P. brutia* forest clearing, 550 m, 11 vi 1998, Varol 2570.

Ir.-Tur.

438. *A. billardieri* Jaub. & Spach [7:564]

Bozduman, *P. brutia* forest clearing, 550 m, 11 vi 1998, Varol 2604.

E. Medit.

#### 55. EUPHORBIACEAE

439. *Andrachne telephoides* L. [7:567]

Topçalı, macchie area, 1000 m, 26 v 1999, Varol 3226.

440. *A. aspera* Spreng. [7:567]

Around fire tower, *Abies-Cedrus* forest, 1700 m, 14 v 1998, Varol 2245.

441. *Euphorbia apios* L. [7:586]

Yıldızobası, macchie area, 1050 m, 11 vi 1998, Varol 2758; Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2642.

E. Medit.

442. *E. helioscopia* L. [7:597]

Bozduman, *P. brutia* forest, 550 m, 25 iv 1998, Varol 2028; Döngöle, roadsides, 480 m, 26 v 1998, Varol 2276.

443. *E. falcata* L. subsp. *falcata* var. *falcata* [7:608]

Döngöle, roadsides, 450 m, 8 ix 1998, Varol 3145.

444. *E. herniariifolia* Willd. var. *glaberrima* Hal. [7:609]

Opposite Kale, *Abies-Cedrus* forest, 1300 m, 6 vi 1998, Varol 2444.

445. *E. denticulata* Lam. [7:610]

North slope of main massif, *Abies-Cedrus* forest, 1300 m, 14 v 1998, Varol 2179; Sersentarla, 1300 m, 10 v 1999, Varol 3222.

Ir.-Tur.

446. *E. macroclada* Boiss. [7:615]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2624; below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2946.

Ir.-Tur.

447. *E. macrostegia* Boiss. [7:627]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2649; below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2907.

#### 56. URTICACEAE

448. *Urtica pilulifera* L. [7:634]

Yıldızobası, roadsides, 550 m, 25 iv 1998, Varol 2115.

Medit.

449. *U. dioica* L. [7:635]

Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2886.

Euro.-Sib.

450. *Parietaria lusitanica* L. [7:638]

Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2884.

Medit.

#### 57. MORACEAE

451. *Ficus carica* L. subsp. *carica* [7:643]

Yolyanı, roadsides, 1000 m, 26 v 1999, Varol 3259.

## 58. FAGACEAE

452. *Quercus infectoria* Olivier subsp. *boissieri* (Reuter) O.Schwarz [7:671]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2592; Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2751.

453. *Q. cerris* L. var. *cerris* [7:674]

Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2754.

454. *Q. coccifera* L. [7:681]

Yıldızobası, roadsides, 600 m, 26 v 1999, Varol 3260.

Medit.

## 59. CORYLACEAE

455. *Ostrya carpinifolia* Scop. [7:685]

Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2942.

Medit.

## 60. BETULACEAE

456. *Alnus glutinosa* (L.) Gaertn. subsp. *glutinosa* [7:692]

Suluayla, roadsides, 1200 m, 22 xi 1998, Varol 3177.

Euro.-Sib.

## Classis: MONOCOTYLEDONES

## 61. LILIACEAE

457. *Ruscus aculeatus* L. var. *angustifolius* Boiss. [8:73]

Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2707.

458. *Allium cassium* Boiss. [8:120]

Opposite Rahmacılar, *P. brutia* forest, 900 m, 26 v 1998, Varol 2323.

E. Medit.

459. *A. tchihatschewii* Boiss. [8:136]

Kale, rocky place, 1100 m, 6 vi 1998, Varol 2396.

Endemic, Ir.-Tur.

460. *A. bassitense* Thiébaud [8:142]

Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2681.

E. Medit.

\*461. *A. flavum* L. subsp. *flavum* var. *flavum* [8:150]

Kuyuluk, rocky place, 1150 m, 23 vii 1998, Varol 3074; Kale, rocky place, 1150 m, 23 vii 1998, Varol 3092.

Medit.

462. *A. trachycoleum* Wendelbo [8:171]

Kale, rocky place, 1150m, 23 vii 1998, Varol 3093.

Ir.-Tur.

463. *A. scorodoprasum* L. subsp. *rotundum* (L.) Stearn [8:173]

Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2664; opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3046.

Medit.

464. *A. phaneranthrum* Boiss. & Hausskn. subsp. *deciduum* Kollman & Koyuncu [8:184]

Eşekçimeydanı, *Abies-Cedrus* forest, 1300 m, 23 vii 1998, Varol 3117.

Endemic, E. Medit.

465. *A. kharputense* Freyn & Sint. [8:204]

Bozduman, *P. brutia* forest clearing, 550 m, 25 iv 1998, Varol 2041.

Ir.-Tur.

466. *Scilla bifolia* L. [8:216]

Below fire tower, *Abies-Cedrus* forest, 1600 m, 14 v 1998, Varol 2239.

Medit.

467. *Ornithogalum montanum* Cyr. [8:236]

Topçalı, macchie area, 1000 m, 10 iv 1999, Varol 3213.

Medit.

\*468. *O. sigmoideum* Freyn & Sint. [8:239]

Yıldızobası, roadsides, 650 m, 25 iv 1998, Varol 2138; below fire tower, *Abies* forest, 1450 m, 14 v 1998, Varol 2237; Sersemterla, *Abies-Cedrus* forest, 1300 m, 10 iv 1999, Varol 3219.

Euro.-Sib.

469. *O. comosum* L. [8:239]

Bozduman, *P. brutia* forest, 550 m, 25 iv 1998, Varol 2038; around fire tower, *Abies-Cedrus* forest, 1700 m, 8 vi 1998, Varol 2488.

470. *Muscari longipes* Boiss. [8:253]

Bozduman, *P. brutia* forest clearing, 550 m, 25 iv 1998, Varol 2040; Döngeli, roadsides, 500 m, 10 iv 1999, Varol 3224.

Ir.-Tur.

471. *M. neglectum* Guss. [8:257]

Rahmacılar, *Abies-Cedrus* forest, 1375 m, 25 iv 1998, Varol 2140; below fire tower, *Abies* forest, 1450 m, 14.v.1998; Topçalı, macchie area, 1200 m, 10 iv 1999, Varol 3210.

472. *Hyacinthus orientalis* L. subsp. *orientalis* [8:264]

Sersemterla, *Abies* forest, 1300 m, 10 iv 1999, Varol 3218.

E. Medit.

473. *Fritillaria acmopetala* Boiss. subsp. *acmopetala* [8:289]

Bozduman, *P. brutia* forest, 550 m, 25 iv 1998, Varol 2035(a); Yıldızobası, roadsides, 550 m, 25 iv 1998, Varol 2122.

E. Medit.

474. *F. alfredae* Post subsp. *glaucoviridis* (Turrill) Rix [8:293]

Bozduman, *P. brutia* forest clearing, 550 m, 25 iv 1998, Varol 2035(b).

\*475. *Tulipa armena* Boiss. var. *armena* [8:307]

Below fire tower, *Abies* forest clearing, 1600 m, 14 v 1998, Varol 2246.

Ir.-Tur.

476. *Gagea villosa* (M.Bieb.) Duby var. *villosa* [8:326]

Below fire tower, *Abies* forest, 1450 m, 14 v 1998, Varol 2226; Sersemterla, *Abies-Cedrus* forest, 1300 m, 10 iv 1999, Varol 3220.

Medit?

477. *Colchicum troodii* Kotschy [8:342]

Rahmacılar, *Abies-Cedrus* forest, 1365 m, 8 ix 1998, Varol 3135; Bozduman, *P. brutia* forest clearing, 500 m, 22 xi 1998, Varol 3172.

E. Medit.  
478. *C. cilicicum* (Boiss.) Dammer [8:348]

North slope of main massif, *Abies-Cedrus* forest, 1400 m, 8 ix 1998, Varol 3160.

E. Medit.

#### 62. IRIDACEAE

479. *Crocus chrysanthus* (Herbert) Herbert [8:419]

Sersemtarla, *Abies-Cedrus* forest, 1400 m, 10 iv 1999, Varol 3217.

480. *C. cancellatus* Herbert subsp. *damascenus* (Herbert) Mathew [8:435]

Yolyani, roadsides, 1000 m, 22 xi 1998, Varol 3171.

Ir.-Tur.

#### 63. ORCHIDACEAE

481. *Cephalanthera kurdica* Bornm. ex Kränzlin [8:458]

Yıldızobası, macchie area, 1050 m, 11 vi 1998, Varol 2750; below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2949.

Ir.-Tur?

482. *C. rubra* (L.) L.C.M.Richard [8:459]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2605; below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2878.

483. *C. damasonium* (Mill.) Druce [8:460]

Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2943.

Euro.-Sib.

\*484. *Epipactis condensata* Boiss. ex D.P.Young [8:467]

Kale, *Abies-Cedrus* forest, 1100 m, 6 vi 1998, Varol 2410; Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2640; Yıldızobası, macchie area, 11 vi 1998, Varol 2742.

E. Medit.

485. *E. microphylla* (Ehrh.) Swartz [8:467]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2628.

Euro.-Sib.

486. *Limodorum abortivum* (L.) Swartz [8:469]

Opposite of Rahmancılar, *P. brutia* forest, 900 m, 26 v 1998 Varol 2333; Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2607.

487. *Ophrys apifera* Hudson [8:499]

Bozduman, *P. brutia* forest, 550 m, 25 iv 1998, Varol 2076.

488. *Anacamptis pyramidalis* (L.) L.C.M.Richard [8:511]

Opposite Kale, *Abies-Cedrus* forest, 1300 m, 8 vi 1998, Varol 2480.

489. *Neotinea maculata* (Desf.) Stearn [8:512]

Opposite Rahmacılar, *P. brutia* forest, 1000 m, 26 v 1998, Varol 2334.

Medit.

490. *Comperia comperiana* (Steven) Asch. & Graebn. [8:515]

The opposite of Rahmacılar, *P. brutia* forest, 1000 m, 26 v 1998, Varol 2337.

Ir.-Tur.

491. *Orchis tridentata* Scop. [8:519]

Bozduman, *P. brutia* forest clearing, 550 m, 25 iv 1998, Varol 2037; Yıldızobası, roadsides, 550 m, 25 iv 1998, Varol 2121.

Medit.

492. *O. simia* Lam. [8:522]

Bozduman, *P. brutia* forest, 550 m, 25 iv 1998, Varol 2075; Yıldızobası, roadsides, 550 m, 25 iv 1998, Varol 2124.

Medit?

493. *O. anatolica* Boiss. [8:528]

Yıldızobası, roadsides, 550 m, 25 iv 1998, Varol 2123.

Medit.

494. *O. laxiflora* Lam. [8:532]

Bozduman, *P. brutia* forest clearing, 550 m, 25 iv 1998, Varol 2036.

Medit.

#### 64. DIOSCOREACEAE

495. *Tamus communis* L. subsp. *communis* [8:553]

Opposite Kale, *Abies* forest, 1270 m, 25 vi 1998, Varol 2981.

#### 65. JUNCACEAE

496. *Luzula forsteri* (Sm.) DC. [9:26]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2653.

Euro.-Sib.

#### 66. CYPERACEAE

497. *Carex otrubae* Podp. [9:93]

Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2708.

Euro.-Sib?

498. *C. flacca* Schreb. subsp. *serrulata* (Biv.) Greuter [9:120]

Bozduman, *P. brutia* forest, 550 m, 11 v 1998, Varol 2593.

Medit.

#### 67. POACEAE (GRAMINEAE)

\*499. *Elymus repens* (L.) Gould subsp. *repens* [9:221]

Döngel, roadsides, 480 m, 26 v 1998, Varol 2271.

500. *Aegilops speltoides* Tausch var. *speltoides* [9:235]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2557.

501. *A. triuncialis* L. subsp. *triuncialis* [9:241]

Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2528; Yıldızobası, macchie area, 1050 m, 11 vi 1998, Varol 2755.

502. *Triticum aestivum* L. [9:253]

Opposite Kale, *Abies-Cedrus* forest 1270 m, 25 vi 1998, Varol 3005(a).

503. *Hordeum bulbosum* L. [9:266]

Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2888.

\*504. *Bromus arvensis* L. [9:279]

Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2855; opposite Kale, *Abies-Cedrus* forest, 1270 m, 25 vi 1998, Varol 3009.

505. *B. lanceolatus* Roth [9:286]

Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2674.

506. *B. sterilis* L. [9:289]

Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2701.

507. *B. tomentellus* Boiss. [9:295]  
Around fire tower, *Abies-Cedrus* forest, 1700 m, 8 vi 1998, Varol 2500.  
Ir.-Tur.
508. *Avena eriantha* Durieu [9:303]  
Yıldızobası, macchie area, 1000 m, 11 vi 1998, Varol 2747(a)
509. *A. sterilis* L. subsp. *ludoviciana* (Durieu) Gillet & Magne [9:306]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2573.
510. *Arrhenatherum elatius* (L.) P.Beauv. ex J. & C.Presl subsp. *elatius* [9:314]  
Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2938.  
Euro.-Sib.
511. *Koeleria cristata* (L.) Pers. [9:332]  
Kuyuluk, rocky place, 1150 m, 23 vii 1998, Varol 3080.
512. *Milium pedicellare* (Bornm.) Roshev. ex Melderis [9:362]  
Below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2841.  
Ir.-Tur.
513. *M. vernale* M.Bieb. subsp. *vernale* [9:362]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2618; Yıldızobası, macchie area, 1050 m, 11 vi 1998, Varol 2675.  
Medit?
- \*514. *Phleum subulatum* (Savi) Asch. & Graebn. subsp. *subulatum* [9:392]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2584.
515. *P. exaratum* Hochst. ex Griseb subsp. *exaratum* [9:396]  
Yıldızobası, macchie area, 1050 m, 11 vi 1998, Varol 2727.
516. *Catapodium rigidum* (L.) C.E.Hubbard ex Dony subsp. *rigidum* var. *majus* (C.Presl) Lainz [9:464]  
Yıldızobası, macchie area, 1050 m, 11 vi 1998, Varol 2665.
517. *Poa pratensis* L. [9:475]  
Opposite Kale, *Abies-Cedrus* forest, 1300 m, 6 vi 1998, Varol 2446.
518. *P. angustifolia* L. [9:476]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2638.
519. *P. bulbosa* L. [9:484]  
North slope of main massif, *Abies-Cedrus* forest, 1300 m, 14 v 1998, Varol 2198.
520. *Eremopoa capillaris* R.R.Mill [9:490]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2633; below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2910.  
E. Medit.
521. *Dactylis glomerata* L. subsp. *hispanica* (Roth) Nyman [9:511]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2541.
522. *Cynosurus echinatus* L. [9:513]  
Yıldızobası, macchie area, 1050 m, 11 vi 1998, Varol 2694; below fire tower, *Abies* forest, 1470 m, 24 vi 1998, Varol 2862.  
Medit.
523. *Briza humilis* M.Bieb. [9:518]  
Yıldızobası, macchie area, 1050 m, 11 vi 1998, Varol 2729.
524. *Melica ciliata* L. subsp. *ciliata* [9:532]  
Opposite Kale, *Abies-Cedrus* forest, 1200 m, 8 vi 1998, Varol 2471.
525. *Stipa bromoides* (L.) Dörfler [9:543]  
Yıldızobası, macchie area, 1050 m, 11 vi 1998, Varol 2690.  
Medit.
526. *S. ehrenbergiana* Trin. & Rupr. [9:547]  
Around fire tower, *Abies-Cedrus* forest clearing, 1700 m, 8 vi 1998, Varol 2499.  
Ir.-Tur.
527. *Sorghum halepense* (L.) Pers. var. *muticum* (Hackel) Grossh. [9:607]  
Döngel, roadsides, 450 m, 8 ix 1998, Varol 3147.
528. *Chrysopogon gryllus* (L.) Trin. [9:610]  
Bozduman, *P. brutia* forest, 550 m, 11 vi 1998, Varol 2575.