



Floristic structure of historical Labranda ruins and its surroundings (Milas, Muğla/Turkey)

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Abstract

The research area is situated in Milas district of Muğla province. In this study, during the period March 2009 - July 2010 727 plant specimens, 66 families, 197 genera, 335 specific and infraspecific taxa were collected and identified. Sixteen of the 335 taxa are new records for the C1 square. The number of endemic plants is 18 (5.37%). The distribution rates of the specimens into phytogeographical regions are as follows: Mediterranean elements 155 (46,26%), Irano-Turanian elements 6 (1,79%) and Euro-Siberian elements 7 (2,08%). Unknown or cosmopolits 167 (49,85%).

Key words: Labranda, Flora, Milas, Muğla, Turkey

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Tarihi Labranda (Milas-Muğla) Kalıntıları ve Çevresinin Floristik Özellikleri

Özet

Araştırma alanı Muğla ilinin Milas ilçesinde yer alır. Bu çalışmada, Mart 2009 – Temmuz 2010 yıllarında toplanan 727 bitki örneğinin değerlendirilmesi ile 66 familya, 197 cins, 335 tür ve türaltı takson tespit edilmiştir. 335 taksondan 16'sı C1 karesi için yeni kayıttır. Endemik bitkilerin sayısı 18 (% 5.37)'dir. Taksonların fitocoğrafik bölgelere dağılım oranları şu şekildedir: Akdeniz elementleri 155 (% 46,26), İran-Turan elementleri 6 (% 1,79) ve Avrupa-Sibirya elementleri 7 (% 2,08). Geniş yayılışlı ve yayılış alanları belli olmayan taksonların sayısı 167 (% 49,85).

Anahtar kelimeler: Labranda, Flora, Milas, Muğla, Türkiye

1. Introduction

Turkey is a country rich in historical features. Espacially Anatolia has hosted many civilizations for centuries. The history of Labranda, which is located in southwestern Anatolia, dates back to the seventh century BC (Hellström, 2007). Labranda, unlike the historic areas around has been known as a sanctuary alone for centuries (Kızıl, 2002). Although there are lots of historic areas in the southwest of Anatolia, their floristic structure has not been studied profoundly. In the ancient city area, Aspat Castle (Strobilos) in Bodrum, Muğla province and the surrounding flora was studied by Çınar (Unpublished). Anamur Antique city and its surrounding has studied by Yıldıztuğay and Küçüködük (Yıldıztuğay and Küçüködük, 2010). Located in the town of Yatağan, Lagina and Stratonikea historical areas flora are still being studied by Department of Botany members at Pamukkale University. Here are some other studies done in the areas close to the research field: Yatağan Bencik Mountain flora (Aytepe and Varol, 2005), Flora of Yılanlı Mountain in the center of Muğla province (Varol et al, 2004), the flora of the region between Didim, Milas and Ören (Pirhan, 2003) and flora and vegetation of Beşparmak (West Menteşe) mountains (Aydın-Muğla) (Özel, 1992).

The purpose of this study is to be a source of the determination of the endemic plants and other floristic studies done in areas close to here in the future as well as to contribute.

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1.1 Description of The Study Area

The study area is in the west-Anatolia region of Turkey. The study area is within the boundaries of the district of Milas in Muğla 27° 49' 19" East longitude and 37° 25' 15" North latitude. Labranda located 14 km. northeast of Milas surrounded by the villages of Ortaköy east, Sarıkaya west and southwest Kargıcak (Figure 1). The altitude of the area is between 580 m-750 m (Figure 2).

The meteorological climatic data were obtained from the General Directory of Meteorological Affairs (Anonymus, 2005). 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 as: Winter, autumn, spring and summer (Akman, 1982). In the research area, the annual mean temperature is 17.8 °C. The maximum mean temperature is 24.5 °C in August. The minimum mean temperature is 4.7 °C in January. The average annual total rainfall is of 698.4 mm. Annual average humidity is ranged between 59.1- 62.2%. For the characterization of the climatic characteristics of the area, Emberger's pluviothermique quotient and Walter's ombrothermique diagrams (Walter, 1956) were used (Figure 3).

2. Materials and methods

The materials of this investigation are comprised plant specimens collected (Muğla- province) in the Labranda protected area and its surroundings between March 2009 and July 2010. The majority of the specimens were identified by using the Flora of Turkey and the East Aegean Islands (Davis 1965-1985, Davis et al. 1988). In cases of uncertainty, Flora Europaea (Tutin et al. 1964-1981) was used as well. The plants are listed in the appendix according to Davis system (1965-1988). The geographical location (the area lies entirely within "C1 Muğla-Milas-Labranda", which is omitted from the station), collection date, the name of the collector and the collection number were given after the name of every taxon in the list. An asterisk (*) in front of a plant name indicates a new record for the C1 grid square. The abbreviations used in the list are as follows; E. Medit.= East Mediterranean element, Medit.= Mediterranean element, Euro.- Sib.= Euro-Siberian element, Ir.-Tur.= Irano-Turanian element. Author name of every taxon was written according to the Authors of Plant Names (Brummitt and 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 researchs (Varol et al., 2004; Aytepe and Varol, 2005) carried out in nearer locations, according to phytogeographical region and the large families and genera. The plant specimens prepared for herbarium collection have been stored in the Department of Biology, Faculty of Science, Muğla University.

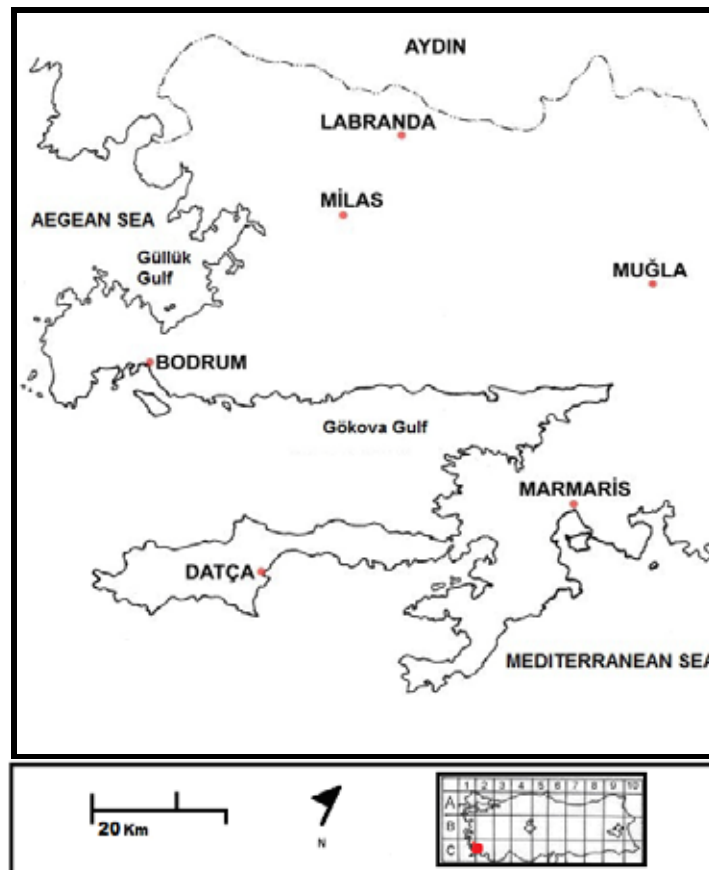


Fig. 1. Labranda location in the province of Muğla.

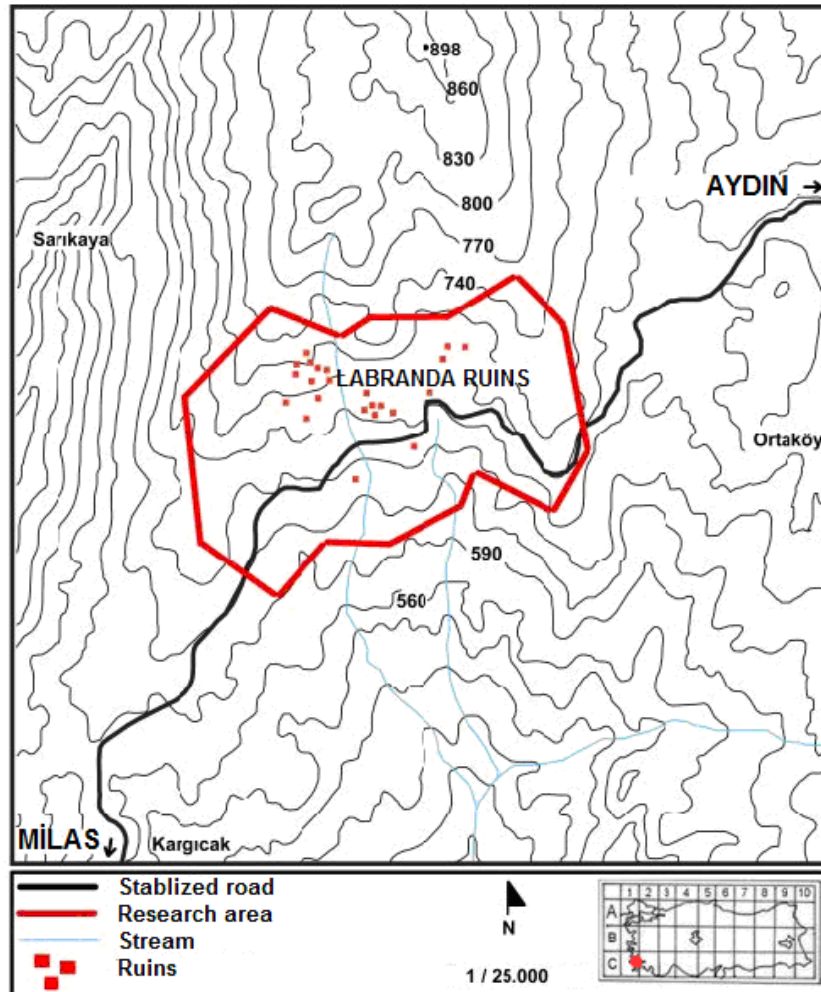


Figure 2. Contour Line map of the study area.

2.1 Abbreviations

Euro.-Sib. ele. :Euro-Siberian element,
 E. Medit. ele. : East Mediterranean element,
 End. : Endemic,
 Ir.-Tur. ele. : Irano-Turanian element,
 Medit. ele. : Mediterranean element.

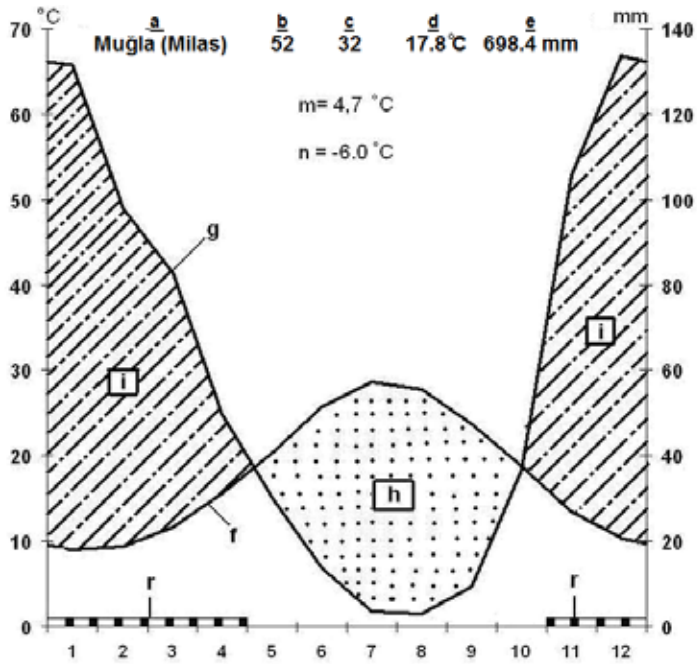
2.2 A brief description of the vegetation

The studied area lies in the west Anatolia. Vegetation types mainly distributed in the study area, are forest vegetation and ruderal vegetation.

Forest vegetation can be found in different zones according to altitude from 560 meters to 750 meters. The overall plants of wood floor are *Pinus brutia* Ten. and *Pinus pinea* L. *Pinus brutia* Ten. and *Pinus pinea* L. communities dominate the northwestern parts of the historical monuments in the center of the field. The remaining parts are completely dominated by *Pinus brutia* Ten. communities.

Ruderal vegetation has a very wide distribution in the center of study area because of the historical remains. Some of plants belonging to ruderal vegetation are; *Malva sylvestris* L., *Capsella bursa-pastoris* (L.) Medik., *Chenopodium botrys* L., *Urtica dioica* L.

Maquis formations can be found in the research area as a result of the destruction of *Pinus brutia* Ten. in the period of transition from ruderal areas to the pine forests. *Olea europaea* L. var. *europaea* and *Pistacia terebinthus* L. subsp. *palaestina* (Boiss) Engler species are found in the study area in western and southern parts. Maquis element of *Nerium oleander* L., *Cistus salviifolius* L. and *Quercus coccifera* L. can be found in eastern regions; *Spartium junceum* L., *Arbutus unedo* L. and *Crataegus monogyna* Jacq subsp. *azarella* (Gris.) Franco. can be found in northern and northeastern areas.



- a. Meteorological station name
 b. Meteorological station altitude (m)
 c. Heat and precipitation observation period (year)
 d. Annual mean temperature
 e. Annual total precipitation (mm)
 f. Heat curve
 g. Precipitation curve
 h. Arid period
 i. Precipitation period
 m. Average low temperature
 n. Temperature of the coldest day
 r. Possible frost season

Figure 3. Climatic diagram of Milas.

2.3 Plant Collection Stations

1. Muğla; Milas, Labranda location, within the protected area, inside the ancient city, 620-650 m.
2. Muğla; Milas, Labranda location, within the protected area, southern section of the highway, meadow areas, 580-620 m.
3. Muğla; Milas, Labranda location, within the protected area, western sides of the ancient city, ruderal areas, 620-650 m.
4. Muğla; Milas, Labranda location, within the protected area, southwestern sides of the ancient city, ruderal areas, 610-630 m.
5. Muğla; Milas, Labranda location, within the protected area, northwestern sides of the ancient city, ruderal areas, 630-660 m.
6. Muğla; Milas, Labranda location, within the protected area, northeastern sides of the ancient city, meadow areas, 640-680 m.
7. Muğla; Milas, Labranda location, outside the protected area, northeastern sides of the ancient city, *P. brutia* forest areas, 700-750 m.
8. Muğla; Milas, Labranda location, within the protected area, northern sides of the ancient city, *P. brutia* forest areas, 680-740 m.
9. Muğla; Milas, Labranda location, within the protected area, eastern sides of the ancient city, meadow areas, 630-660 m.
10. Muğla; Milas, Labranda location, within the protected area, the southern parts of the highway, southwest sides of the ancient city, river bank, 570-600 m.
11. Muğla; Milas, Labranda location, along the protected area border on the western side of ancient city, *P. brutia* forest areas, 610-650 m.
12. Muğla; Milas, Labranda location, outside the protected area, northwestern sides of the ancient city, *P. brutia* and *P. pinea* forest areas, 640-700 m.
13. Muğla; Milas, Labranda location, outside the protected area, southwestern sides of the ancient city, the southern parts of the highway, *P. brutia* forest areas, 560-600 m.

14. Muğla; Milas, Labranda location, outside the protected area, eastern sides of the ancient city, *P. brutia* forest areas, 650-700 m.
15. Muğla; Milas, Labranda location, within the protected area, northeastern sides of the ancient city, footpath roadside, meadow areas, 640-660 m.
16. Muğla; Milas, Labranda location, outside the protected area, western sides of the ancient city, *P. brutia* forest areas, 590-620 m.
17. Muğla; Milas, Labranda location, within the protected area, southwestern sides of the ancient city, the southern parts of the highway, *Olea europaea* areas, 560-580 m.
18. Muğla; Milas, Labranda location, outside the protected area, southwestern sides of the ancient city, river banks, 570-600 m.
19. Muğla; Milas, Labranda location, outside the protected area, southwestern sides of the ancient city, *P. brutia* forest areas, 570-600 m.
20. Muğla; Milas, Labranda location, outside the protected area, all around the ancient city, 550-750 m.
Muğla; Milas, Labranda location, outside the protected area, northwestern sides of the ancient city, 630-710 m..

3. Results

This floristic study was carried out with approximately 727 plant specimens collected between March 2009 – July 2010. As a result of the identification of the plant specimens, 66 families, 197 genera, 335 taxon were determined. Eighteen of the collected taxa are endemic. Sixteen plant samples which identified were collected first time from C1 square (Donner, 1990). Two of the 335 taxa are in *Pteridophyta* while 333 are in *Spermatophyta*. Two of the 333 taxa are in *Gymnospermae* while 331 are in *Angiospermae*. Of these, 284 taxa belong to the class *Dicotyledones*, while the other 47 belong to *Monocotyledones*. The results are summarised in Table 1. The taxa of the study area, categorized according to phytogeographical regions, can be listed as follows: Mediterranean elements 155 (46.26%), Euro-Sib. elements 7 (2.08%) Irano-Turanian elements 6 (1.79%) and the remaining 167 (49.85%) taxa are multiregional. The results of the studies conducted in similar areas, together with the endemic and phytogeographical distribution are presented in Table 2.

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. Irano-Turanian elements have a higher rate on Yılanlı Mountain, the Euro-Siberian elements are approximately at the same rate in all areas. The rate of endemism in our research area and other studies are very low (5.37%), when compared with endemism ratio in the total Flora of Turkey (33%). This ratio may not seem to be high. But, when we focus on the flora in Turkey, it is observed that 85% of the endemic taxa grow between 1000-2000 m. In this case, plains at lower altitudes are poor in terms of endemics. The reason of a higher rate of endemism than other areas on the Yılanlı Mountain can be that vegetation shows diversity because altitude is higher than other areas (Labranda; Aytepe, 2005).

When we compare the number of taxa in families with other areas close to our region, as in our area on Aspat Castle and Bencik Mountain *Asteraceae*, *Fabaceae* and *Poaceae* families are dominant. *Asteraceae*, *Fabaceae* and *Lamiaceae* families are dominant in Yılanlı Mountain. In our working region *Caryophyllaceae* family is found at a higher rate than other areas, *Liliaceae* ve *Orchidaceae* families are at lower rate (Table 3).

Table 1. The floristic evaluation of Labranda ruins and its surroundings

	<i>Pteridophyta</i>	<i>Gymnospermae</i>	<i>Dicotyledones</i>	<i>Monocotyledones</i>	Total
Number of Families	2	1	55	8	66
Number of Genera	2	1	165	29	197
Number of Taxa	2	2	284	47	335

Table 2. Comparison of the numbers and percentages the endemic and phytogeographical elements.

Research Area	Labranda		Çınar, 2010 Bodrum		Aytepe, 2005 Yatağan		Varol, 2004 Muğla	
	number	(%)	number	(%)	number	(%)	number	(%)
Medit. ele.	155	46.26	163	48.36	153	36.80	132	38.41
Ir.-Tur. ele.	6	1.79	9	2.67	19	4.57	36	10.52
Euro.-Sib. ele	7	2.08	5	1.48	10	2.40	8	2.31
Multi-regional	166	49.85	160	47.47	187	44.95	167	48.60
Endemic taxon	18	5.37	13	3.85	35	8.42	64	18.59

Table 3. Comparison of the numbers and percentages largest families in Labranda and other studies.

Research Area	Labranda		Çınar, 2010 Bodrum		Aytepe, 2005 Yatağan		Varol, 2004 Muğla	
	number	(%)	number	(%)	number	(%)	number	(%)
<i>Asteraceae</i>	41	12.23	57	16.91	55	13.22	33	9.62
<i>Fabaceae</i>	40	11.94	44	13.05	39	9.38	44	12.82
<i>Poaceae</i>	23	6.86	20	5.93	27	6.50	26	7.58
<i>Caryophyllaceae</i>	20	5.97	13	3.85	17	4.08	13	3.79
<i>Brassicaceae</i>	15	4.47	13	3.85	22	5.29	10	2.91
<i>Lamiaceae</i>	14	4.20	15	4.45	37	8.90	37	10.78
<i>Scrophulariaceae</i>	12	3.58	13	3.85	11	2.71	10	2.91
<i>Liliaceae</i>	11	3.28	14	4.45	23	5.50	22	6.41
<i>Apiaceae</i>	11	3.28	11	3.35	17	4.08	9	2.62
<i>Boraginaceae</i>	10	2.99	8	2.37	10	2.40	18	5.24

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APPENDIX FLORISTIC LIST

PTERIDOPHYTA

ASPLENIACEAE

1. *Ceterach officinarum* DC.

Loc. 1, 10.01.2010, B.Güler 672.

ASPIDIACEAE

2. *Dryopteris pallida* (Bory) Fomin

Loc. 14, 14.02.2010, B.Güler 706.

Medit. element

SPERMATOPHYTA

GYMNOSPERMAE

PINACEAE

3. *Pinus brutia* Ten.

Loc. 20, 28.03.2010, B.Güler 720.

E. Medit. element

4. *P. pinea* L.

Loc. 21, 24.04.2010, B.Güler 731.

Medit. element

ANGIOSPERMAE

DICOTYLEDONES

RANUNCULACEAE

5. *Clematis cirrhosa* L.

Loc. 1, 03.11.2009, B.Güler 653; Loc. 1, 30.05.2010, B.Güler 737.

Medit. element

6. *Ranunculus paludosus* Poir.

Loc. 5, 17.05.2009, B.Güler 285.

7. *R. marginatus* d'Urv. var. *trachycarpus* (Fisch. & Mey.) Azn.

Loc. 3, 02.05.2009, B.Güler 187.

8. *R. muricatus* L.

Loc. 10, 03.05.2009, B.Güler 255.

9. *R. ficaria* L. subsp. *ficariiformis* Rouy & Fouc.

Loc. 1, 02.03.2009, B.Güler 003; Loc. 3, 10.01.2010, B.Güler 686.

PAPAVERACEAE

10. *Papaver rhoeas* L.

Loc. 1, 06.06.2009, B.Güler 513; Loc. 14, 24.04.2010, B.Güler 728.

11. *P. virchowii* Aschers. & Sint. ex Boiss.

Loc. 4, 02.05.2009, B.Güler 134.

12. *Hypecoum imberbe* Sibth. & Sm.

Loc. 1, 02.03.2009, B.Güler 002; Loc. 9, 23.05.2009, B.Güler 470; Loc. 1, 16.03.2009, B.Güler 051; Loc. 14, 14.02.2010, B.Güler 699.

Medit. element

*13. *Corydalis solida* (L.) Swartz

Loc. 1, 16.03.2009, B.Güler 047; Loc. 15, 14.02.2010, B.Güler 704.

14. *Fumaria densiflora* DC.

Loc. 7, 23.05.2009, B.Güler 404.

Medit. element

15. *F. officinalis* L.

Loc. 1, 13.04.2009, B.Güler 099.

BRASSICACEAE (CRUCIFERAE)**16. *Sinapis arvensis* L.**

Loc. 2, 03.05.2009, B.Güler 271

17. *Hirschfeldia incana* (L.) Lag.-Foss.

Loc. 17, 24.05.2009, B.Güler 478.

18. *Raphanus raphanistrum* L.

Loc. 1, 13.04.2009, B.Güler 120; Loc. 1, 02.05.2009, B.Güler 169; Loc. 3,

02.05.2009, B.Güler 181; Loc. 1, 10.01.2010, B.Güler 671;

Loc. 14, 24.04.2010, B.Güler 726.

19. *Calepina irregularis* (Asso) Thellung

Loc. 6, 30.03.2009, B.Güler 076; Loc. 6, 30.03.2009, B.Güler

078; Loc. 6, 30.03.2009, B.Güler 079; Loc. 1, 28.03.2010,

B.Güler 724.

20. *Thalspi perfoliatum* L.

Loc. 6, 30.03.2009, B.Güler 071.

21. *Capsella bursa-pastoris* (L.) Medik.

Loc. 1, 02.03.2009, B.Güler 001; Loc. 2, 30.03.2009, B.Güler

065; Loc. 1, 16.03.2009, B.Güler 045; Loc. 6, 19.12.2009,

B.Güler 658; Loc. 6, 19.12.2009, B.Güler 655.

22. *Bunias erucago* L.

Loc. 1, 02.05.2009, B.Güler 174; Loc. 4, 02.05.2009, B.Güler

127; Loc. 6, 14.02.2010, B.Güler 700; Loc. 3, 02.03.2009,

B.Güler 012.

23. *Alyssum fulvescens* Sibth. & Sm. var. *fulvescens*

Loc. 7, 23.05.2009, B.Güler 380; Loc. 3, 16.03.2009,

B.Güler 042; Loc. 17, 14.02.2010, B.Güler 691.

E. Medit. element

24. *Erophila verna* (L.) Chevall. subsp. *praecox* (Stev.)

Walters

Loc. 3, 16.03.2009, B.Güler 041; Loc. 14, 14.02.2010,

B.Güler 687.

25. *Arabis verna* (L.) DC.

Loc. 1, 13.04.2009, B.Güler 096.

Medit. element

26. *Nasturtium officinale* R. Br.

Loc. 18, 03.05.2009, B.Güler 259; Loc. 18, 24.05.2009,

B.Güler 485; Loc. 18, 07.06.2009, B.Güler 554; Loc. 18,

07.06.2009, B.Güler 555.

27. *Cardamine graeca* L..

Loc. 1, 13.04.2009, B.Güler 100; Loc. 1, 13.04.2009,

B.Güler 095.

28. *C. hirsuta* L.

Loc. 1, 16.03.2009, B.Güler 043; Loc. 2, 30.03.2009,

B.Güler 062.

29. *Malcolmia chia* (L.) DC.

Loc. 1, 13.04.2009, B.Güler 097.

E. Medit. element

30. *Sisymbrium officinale* (L.) Scop.

Loc. 8, 23.05.2009, B.Güler 448; Loc. 1, 13.04.2009,

B.Güler 119; Loc. 2, 03.05.2009, B.Güler 269; Loc. 2,

03.05.2009, B.Güler 272.

31. *Arabidopsis thaliana* (L.) Heynhold

Loc. 2, 30.03.2009, B.Güler 063.

CISTACEAE**32. *Cistus creticus* L.**

Loc. 3, 18.05.2009, B.Güler 345.

Medit. element

33. *C. salviifolius* L.

Loc. 7, 02.05.2009, B.Güler 226; Loc. 7, 23.05.2009, B.Güler 362.

Medit. element

34. *Tuberaria guttata* (L.) Fourr. var. *plantaginea* (Willd.) Gross.

Loc. 7, 23.05.2009, B.Güler 363; Loc. 7, 23.05.2009, B.Güler

378.

PORTULACACEAE**35. *Portulaca oleracea* L.**

Loc. 5, 12.10.2009, B.Güler 635; Loc. 5, 12.10.2009, B.Güler

633; Loc. 1, 17.09.2009, B.Güler 615.

CARYOPHYLLACEAE**36. *Arenaria oxypetala* Sibth. & Sm.**

Loc. 1, 07.07.2009, B.Güler 581.

E. Medit. element

37. *A. serpyllifolia* L.

Loc. 1, 02.05.2009, B.Güler 209.

38. *Minuartia mesogitana* (Boiss.) Hand.-Mazz. subsp. *mesogitana*

Loc. 1, 02.05.2009, B.Güler 211; Loc. 1, 02.05.2009, B.Güler

200.

E. Medit. element

39. *Stellaria media* (L.) Vill. subsp. *media*

Loc. 15, 14.02.2010, B.Güler 698.

40. *Cerastium glomeratum* Thuill.

Loc. 2, 30.03.2009, B.Güler 058; Loc. 8, 23.05.2009, B.Güler

416; Loc. 8, 23.05.2009, B.Güler 425; Loc. 1, 02.05.2009,

B.Güler 202; Loc. 1, 10.01.2010, B.Güler 676.

41. *C. brachypetalum* Pers. subsp. *roeseri* (Boiss. & Heldr.)

Nyman

Loc. 2, 30.03.2009, B.Güler 061; Loc. 1, 28.03.2010, B.Güler

712.

Medit. element

42. *C. illyricum* Ard. subsp. *comatum* (Desv.) P.D. Sell &

Whitehead

Loc. 3, 18.05.2009, B.Güler 343; Loc. 2, 03.05.2009, B.Güler

264.

E. Medit. element

43. *Moenchia mantica* (L.) Bartl. subsp. *caerula* (Boiss.)

Clapham

Loc. 7, 23.05.2009, B.Güler 379; Loc. 14, 02.05.2009,

B.Güler 233.

44. *Sagina maritima* Don

Loc. 3, 18.05.2009, B.Güler 346; Loc. 5, 23.05.2009, B.Güler

466.

Medit. element

45. *Spergularia media* (L.) C. Presl

Loc. 12, 06.06.2009, B.Güler 519.

46. *S. marina* (L.) Gris.

Loc. 9, 07.06.2009, B.Güler 559; Loc. 6, 30.03.2009, B.Güler

075.

47. *Polycarpon tetraphyllum* (L.) L.

Loc. 17, 24.05.2009, B.Güler 482; Loc. 9, 17.05.2009,

B.Güler 318.

Medit. element

48. *Dianthus tripunctatus* Sibth. & Sm.

Loc. 4, 02.05.2009, B.Güler 137; Loc. 4, 02.05.2009, B.Güler

159; Loc. 9, 17.05.2009, B.Güler 296; Loc. 7, 23.05.2009,

B.Güler 366.

Medit. element

49. *Velezia hispida* Boiss.

Loc. 7, 23.05.2009, B.Güler 446; Loc. 7, 23.05.2009, B.Güler

361; Loc. 11, 06.06.2009, B.Güler 493.

End.

50. *Silene italica* (L.) Pers.

Loc. 9, 17.05.2009, B.Güler 277; Loc. 7, 02.05.2009, B.Güler 221; Loc. 7, 23.05.2009, B.Güler 382.
Medit. element

51. *S. vulgaris* (Moench) Garcke var. *vulgaris*

Loc. 9, 17.05.2009, B.Güler 276.

52. *S. behen* L.

Loc. 4, 02.05.2009, B.Güler 144.

53. *S. gallica* L.

Loc. 2, 03.05.2009, B.Güler 247; Loc. 2, 03.05.2009, B.Güler 248; Loc. 7, 02.05.2009, B.Güler 215; Loc. 7, 02.05.2009, B.Güler 217; Loc. 1, 02.05.2009, B.Güler 192; Loc. 7, 23.05.2009, B.Güler 408.

54. *S. subconica* Friv.

Loc. 9, 17.05.2009, B.Güler 327.

55. *S. lydia* Boiss.

Loc. 2, 03.05.2009, B.Güler 242; Loc. 4, 02.05.2009, B.Güler 151.

E. Medit. element

ILLECEBRACEAE

56. *Paronychia echinulata* Chater

Loc. 12, 06.06.2009, B.Güler 533.

Medit. element

POLYGONACEAE

57. *Polygonum arenastrum Bor.

Loc. 6, 19.12.2009, B.Güler 656.

58. *Rumex acetosella* L.

Loc. 9, 17.05.2009, B.Güler 316; Loc. 7, 23.05.2009, B.Güler 441; Loc. 9, 07.06.2009, B.Güler 560.

59. *R. tuberosus* L. subsp. *tuberosus*

Loc. 4, 02.05.2009, B.Güler 138.

60. *R. tuberosus* L. subsp. *creticus* (Boiss.) Rech.

Loc. 18, 24.05.2009, B.Güler 486; Loc. 2, 03.05.2009, B.Güler 260.

61. *R. conglomeratus* Murray

Loc. 1, 16.03.2009, B.Güler 052; Loc. 1, 02.05.2009, B.Güler 171.

62. *R. pulcher* L.

Loc. 3, 18.05.2009, B.Güler 349.

63. *R. bucephalophorus* L.

Loc. 4, 02.05.2009, B.Güler 135; Loc. 2, 03.05.2009, B.Güler 267; Loc. 3, 18.05.2009, B.Güler 351; Loc. 7, 23.05.2009, B.Güler 401.

Medit. element

CHENOPODIACEAE

64. *Chenopodium botrys* L.

Loc. 1, 17.09.2009, B.Güler 623.

Medit. element

65. *C. murale* L.

Loc. 1, 17.09.2009, B.Güler 622.

AMARANTHACEAE

66. *Amaranthus retroflexus L.

Loc. 1, 17.09.2009, B.Güler 625.

67. *A. albus* L.

Loc. 1, 16.08.2009, B.Güler 602; Loc. 1, 07.07.2009, B.Güler 592.

CYNOCRAMBACEAE

68. *Theligonum cynocrambe* L.

Loc. 8, 23.05.2009, B.Güler 417; Loc. 9, 17.05.2009, B.Güler 275; Loc. 17, 14.02.2010, B.Güler 693.

Medit. element

HYPERICACEAE (GUTTIFERAE)

69. *Hypericum atomarium* Boiss.

Loc. 13, 24.05.2009, B.Güler 464; Loc. 1, 07.07.2009, B.Güler 589; Loc. 1, 06.06.2009, B.Güler 511; Loc. 1, 30.05.2010, B.Güler 738.

E. Medit. element

70. *H. perforatum* L.

Loc. 9, 17.05.2009, B.Güler 317; Loc. 7, 23.05.2009, B.Güler 445; Loc. 9, 15.05.2010, B.Güler 731.

MALVACEAE

71. *Malva sylvestris* L.

Loc. 3, 02.05.2009, B.Güler 177; Loc. 1, 13.04.2009, B.Güler 121; Loc. 7, 24.04.2010, B.Güler 727.

72. *M. nicaeensis* All.

Loc. 2, 03.05.2009, B.Güler 251; Loc. 17, 24.05.2009, B.Güler 479.

Medit. element

73. *Alcea dissecta* (Baker) Zohary

Loc. 1, 06.06.2009, B.Güler 517.

GERANIACEAE

74. *Geranium lucidum* L.

Loc. 2, 03.05.2009, B.Güler 249; Loc. 1, 13.04.2009, B.Güler 103; Loc. 1, 13.04.2009, B.Güler 093; Loc. 6, 30.03.2009, B.Güler 072; Loc. 10, 28.03.2010, B.Güler 709.

75. *G. purpureum* Vill.

Loc. 7, 23.05.2009, B.Güler 455.

76. *G. rotundifolium* L.

Loc. 13, 07.06.2009, B.Güler 544; Loc. 9, 17.05.2009, B.Güler 324; Loc. 1, 28.03.2010, B.Güler 713.

77. *G. molle* L. subsp. *molle*

Loc. 2, 03.05.2009, B.Güler 245; Loc. 3, 18.05.2009, B.Güler 344; Loc. 1, 16.03.2009, B.Güler 048; Loc. 1, 02.03.2009, B.Güler 007; Loc. 4, 02.05.2009, B.Güler 156; Loc. 1, 13.04.2009, B.Güler 115.

78. *Erodium botrys* (Cav.) Betrol.

Loc. 1, 16.03.2009, B.Güler 038; Loc. 1, 16.03.2009, B.Güler 039; Loc. 3, 30.03.2009, B.Güler 084.

Medit. element

79. *E. ciconium* (L.) L'Hérit.

Loc. 9, 17.05.2009, B.Güler 300; Loc. 1, 13.04.2009, B.Güler 112; Loc. 10, 28.03.2010, B.Güler 710.

Medit. element

80. *E. cicutarium* (L.) L'Hérit. subsp. *cutarium*

Loc. 12, 06.06.2009, B.Güler 494; Loc. 7, 23.05.2009, B.Güler 369; Loc. 7, 23.05.2009, B.Güler 377.

81. *E. moschatum* (L.) L'Hérit.

Loc. 1, 02.03.2009, B.Güler 011; Loc. 1, 10.01.2010, B.Güler 673.

Medit. element?

ZYGOPHYLLACEAE

82. *Tribulus terrestris* L.

Loc. 1, 17.09.2009, B.Güler 624; Loc. 1, 07.07.2009, B.Güler 594; Loc. 1, 03.07.2009, B.Güler 743.

VITACEAE (AMPELIDACEAE)

83. *Vitis vinifera* L.

Loc. 9, 17.05.2009, B.Güler 293.

ANACARDIACEAE

84. *Pistacia terebinthus* L. subsp. *palaestina* (Boiss) Engler

Loc. 6, 06.07.2009, B.Güler 567; Loc. 1, 02.05.2009, B.Güler 188; Loc. 9, 17.05.2009, B.Güler 328; Loc. 1, 03.07.2009, B.Güler 744.

E. Medit. element

FABACEAE (LEGUMINOSAE)**85. *Spartium junceum* L.**

Loc. 2, 03.05.2009, B.Güler 263; Loc. 8, 24.04.2010, B.Güler 725.

Medit. element

86. *Calicotome villosa* (Poiret) Link

Loc. 2, 30.03.2009, B.Güler 066; Loc. 8, 02.05.2009, B.Güler 240.

Medit. element

87. *Lupinus varius* L.

Loc. 7, 02.05.2009, B.Güler 216; Loc. 7, 23.05.2009, B.Güler 411; Loc. 1, 02.05.2009, B.Güler 183.

Medit. element

88. *Vicia cracca* L. subsp. *stenophylla* Vel.

Loc. 1, 06.06.2009, B.Güler 505.

89. *V. villosa* Roth subsp. *villosa*

Loc. 9, 17.05.2009, B.Güler 310; Loc. 12, 06.06.2009, B.Güler 529; Loc. 1, 13.04.2009, B.Güler 114.

90. *V. articulata* Hornem.

Loc. 7, 23.05.2009, B.Güler 396; Loc. 14, 02.05.2009, B.Güler 237; Loc. 7, 23.05.2009, B.Güler 451.

Medit. element

91. *V. hirsuta* (L.) S. F. Gray

Loc. 7, 23.05.2009, B.Güler 450.

92. *V. grandiflora* Scop var. *grandiflora*

Loc. 7, 23.05.2009, B.Güler 370; Loc. 3, 30.03.2009, B.Güler 083; Loc. 1, 02.05.2009, B.Güler 167; Loc. 9, 17.05.2009, B.Güler 306; Loc. 7, 23.05.2009, B.Güler 447; Loc. 6, 28.03.2010, B.Güler 716; ; Loc. 1, 30.05.2010, B.Güler 736.

E. Medit. element

93. *V. grandiflora* Scop var. *dissecta* Boiss.

Loc. 1, 02.05.2009, B.Güler 170.

94. *V. cuspidata* Boiss.

Loc. 1, 13.04.2009, B.Güler 094.

E. Medit. element

95. *V. lathyroides* L.

Loc. 3, 18.05.2009, B.Güler 339.

96. *V. bithynica* L.

Loc. 7, 23.05.2009, B.Güler 390; Loc. 1, 02.05.2009, B.Güler 190; Loc. 7, 23.05.2009, B.Güler 409.

97. *Pisum sativum* L. subsp. *elatius* (Bieb) Aschers. & Graebn var. *elatius*

Loc. 1, 13.04.2009, B.Güler 113; Loc. 9, 17.05.2009, B.Güler 307; Loc. 5, 30.09.2009, B.Güler 627; Loc. 15, 28.03.2010, B.Güler 715.

Medit. element?

98. *Trifolium repens* L. var. *repens*

Loc. 8, 23.05.2009, B.Güler 421.

99. *T. nigrescens* Viv. subsp. *petrisavii* (Clem.) Holmboe

Loc. 1, 13.04.2009, B.Güler 110; Loc. 1, 02.05.2009, B.Güler 185.

100. *T. campestre* Schreb.

Loc. 7, 23.05.2009, B.Güler 358; Loc. 9, 17.05.2009, B.Güler 279; Loc. 16, 06.06.2009, B.Güler 496; Loc. 1, 02.05.2009, B.Güler 212.

Medit. element

101. *T. glomeratum* L.

Loc. 9, 17.05.2009, B.Güler 311.

102. *T. spumosum* L.

Loc. 4, 02.05.2009, B.Güler 139; Loc. 9, 17.05.2009, B.Güler 308; Loc. 9, 17.05.2009, B.Güler 312; Loc. 8, 23.05.2009, B.Güler 423.

Medit. element

103. *T. resupinatum* L. var. *microcephalum* Zoh.

Loc. 7, 23.05.2009, B.Güler 391; Loc. 3, 18.05.2009, B.Güler 354; Loc. 4, 02.05.2009, B.Güler 148.

104. *T. tomentosum* L.

Loc. 2, 03.05.2009, B.Güler 252; Loc. 1, 13.04.2009, B.Güler 102; Loc. 17, 24.05.2009, B.Güler 481.

105. *T. pratense* L. var. *pratense

Loc. 10, 07.06.2009, B.Güler 553.

106. *T. stellatum* L. var. *stellatum*

Loc. 9, 17.05.2009, B.Güler 305.

Medit. element

107. *T. lucanicum* Gasp.

Loc. 7, 23.05.2009, B.Güler 397.

Medit. element?

108. *T. cherleri* L.

Loc. 8, 23.05.2009, B.Güler 426; Loc. 7, 23.05.2009, B.Güler 385; Loc. 9, 17.05.2009, B.Güler 335.

Medit. element

109. *T. arvense* L. var. *arvense*

Loc. 7, 23.05.2009, B.Güler 374; Loc. 3, 18.05.2009, B.Güler 356; Loc. 12, 06.06.2009, B.Güler 523.

110. *T. purpureum* Lois. var. *purpureum*

Loc. 3, 18.05.2009, B.Güler 348; Loc. 12, 06.06.2009, B.Güler 531; Loc. 14, 23.05.2009, B.Güler 359.

111. *T. subterraneum* L.

Loc. 1, 13.04.2009, B.Güler 111; Loc. 3, 30.03.2009, B.Güler 086.

112. *Melilotus indica* (L.) All.

Loc. 8, 23.05.2009, B.Güler 412.

113. *M. elegans* Salzm.

Loc. 2, 03.05.2009, B.Güler 244; Loc. 1, 02.05.2009, B.Güler 205.

114. *Trigonella smyrnea* Boiss.

Loc. 1, 13.04.2009, B.Güler 098; Loc. 1, 13.04.2009, B.Güler 108.

End., E. Medit. element

115. *Medicago orbicularis* (L.) Bart.

Loc. 14, 02.05.2009, B.Güler 238; Loc. 2, 03.05.2009, B.Güler 258; Loc. 7, 23.05.2009, B.Güler 373; Loc. 1, 02.05.2009, B.Güler 201; Loc. 3, 02.05.2009, B.Güler 178.

Medit. element

***116. *M. praecox* DC.**

Loc. 2, 03.05.2009, B.Güler 253.

Medit. element

117. *M. minima* (L.) Bart. var. *minima*

Loc. 1, 02.05.2009, B.Güler 194.

118. *M. disciformis* DC.

Loc. 1, 02.05.2009, B.Güler 207; Loc. 2, 03.05.2009, B.Güler 257; Loc. 2, 03.05.2009, B.Güler 254; Loc. 9, 17.05.2009, B.Güler 314.

Medit. element

119. *M. polymorpha* L. var. *vulgaris* (Benth.) Shinnars

Loc. 3, 18.05.2009, B.Güler 340; Loc. 9, 17.05.2009, B.Güler 281; Loc. 2, 03.05.2009, B.Güler 262; Loc. 4, 02.05.2009, B.Güler 161; Loc. 4, 02.05.2009, B.Güler 163; Loc. 1, 02.05.2009, B.Güler 204.

120. *M. littoralis* Rohde ex Lois. var. *littoralis*

Loc. 7, 23.05.2009, B.Güler 383; Loc. 4, 02.05.2009, B.Güler 162.

Medit. element

121. *Lotus angustissimus* L.

Loc. 5, 30.09.2009, B.Güler 629; Loc. 12, 06.06.2009, B.Güler 536; Loc. 13, 07.06.2009, B.Güler 540.

122. *L. macrotrishus* Boiss.

Loc. 14, 02.05.2009, B.Güler 228; Loc. 7, 23.05.2009, B.Güler 367; Loc. 8, 23.05.2009, B.Güler 432.

End., E. Medit. element

123. *Coronilla cretica* L.

Loc. 11, 06.06.2009, B.Güler 495.

E. Medit. element

124. *Ornithopus compressus* L.

Loc. 11, 06.06.2009, B.Güler 499; Loc. 7, 23.05.2009, B.Güler 381; Loc. 1, 02.05.2009, B.Güler 208; Loc. 1, 13.04.2009, B.Güler 104.
Medit. element

ROSACEAE

125. *Rubus sanctus* Schreber

Loc. 5, 16.08.2009, B.Güler 612.

Medit. element

126. *Rosa canina* L.

Loc. 7, 23.05.2009, B.Güler 372; Loc. 9, 17.05.2009, B.Güler 294.

127. *Crataegus monogyna* Jacq subsp. *azarella* (Gris.) Franco

Loc. 14, 02.05.2009, B.Güler 239; Loc. 9, 17.05.2009, B.Güler 286; Loc. 7, 23.05.2009, B.Güler 436; Loc. 1, 02.05.2009, B.Güler 186; Loc. 6, 19.12.2009, B.Güler 665.

128. *Cydonia oblonga* Miller

Loc. 3, 02.05.2009, B.Güler 176.

129. *Malus sylvestris* Miller subsp. *orientalis* (A. Uglitzkich) Browicz var. *orientalis*

Loc. 6, 06.07.2009, B.Güler 574.

130. *Pyrus communis* L. subsp. *sativa* (DC.) Hegi

Loc. 9, 17.05.2009, B.Güler 291; Loc. 9, 06.07.2009, B.Güler 573; Loc. 1, 03.07.2009, B.Güler 745.

131. *P. amygdaliformis* Vill. var. *amygdaliformis*

Loc. 1, 03.11.2009, B.Güler 651.

E. Medit. element

PUNICACEAE

132. *Punica granatum* L.

Loc. 1, 06.06.2009, B.Güler 516.

LYTHRACEAE

133. *Lythrum hyssopifolia* L.

Loc. 12, 06.06.2009, B.Güler 534.

ONAGRACEAE

134. *Epilobium parviflorum* Schreber

Loc. 10, 24.05.2009, B.Güler 484; Loc. 4, 15.05.2010, B.Güler 733.

135. *E. minutiflorum Hausskn.

Loc. 5, 30.09.2009, B.Güler 626.

Ir.-Tur. element

CRASSULACEAE

136. *Umbilicus rupestris* (Salisb.) Dandy

Loc. 7, 23.05.2009, B.Güler 368; Loc. 7, 23.05.2009, B.Güler 399; Loc. 4, 02.05.2009, B.Güler 157; Loc. 17, 14.02.2010, B.Güler 689.

137. *Sedum caespitosum* (Cav.) DC.

Loc. 2, 30.03.2009, B.Güler 059; Loc. 4, 02.05.2009, B.Güler 141; Loc. 3, 10.01.2010, B.Güler 685.

Medit. element?

138. *S. hispanicum* L. var. *hispanicum*

Loc. 7, 23.05.2009, B.Güler 398.

SAXIFRAGACEAE

139. *Saxifraga cymbalaria* L. var. *huetiana* (Boiss.) Engler & Irscher

Loc. 6, 30.03.2009, B.Güler 077; Loc. 4, 02.05.2009, B.Güler 140.

140. *S. hederacea* L. var. *libatonica* (Bornm.) Matthews

Loc. 8, 23.05.2009, B.Güler 427.

APIACEAE

141. *Eryngium glomeratum* Lam.

Loc. 18, 07.06.2009, B.Güler 552.

142. *Myrrhoides nodosa* (L.) Cannon

Loc. 2, 03.05.2009, B.Güler 274.

Medit. element

143. *Scandix australis* L. subsp. *grandiflora* (L.) Thell.

Loc. 9, 17.05.2009, B.Güler 321; Loc. 6, 30.03.2009, B.Güler 082; Loc. 6, 28.03.2010, B.Güler 717.

144. *Oenanthe pimpinelloides* L.

Loc. 9, 23.05.2009, B.Güler 461; Loc. 9, 17.05.2009, B.Güler 278.

145. *Microsciadium minutum* (d'Urv.) Briq.

Loc. 12, 06.06.2009, B.Güler 527.

End., E. Medit. element

146. *Ferula tingitana* L.

Loc. 9, 17.05.2009, B.Güler 283; Loc. 9, 23.05.2009, B.Güler 463; Loc. 1, 10.01.2010, B.Güler 678.

Medit. element

147. *Opopanax hispidus* (Friv.) Gris.

Loc. 1, 13.04.2009, B.Güler 105; Loc. 1, 16.03.2009, B.Güler 050.

148. *Thapsia garganica* L.

Loc. 6, 06.07.2009, B.Güler 571.

Medit. element

149. *Torillis arvensis* (Huds.) Link subsp. *purpurea* (Ten.) Hayek

Loc. 3, 18.05.2009, B.Güler 336; Loc. 7, 23.05.2009, B.Güler 452.

Medit. element

150. *T. arvensis* (Huds.) Link subsp. *elongata* (Hoffmanns. & Link)

Loc. 7, 23.05.2009, B.Güler 392.

Medit. element

151. *T. ucranica* Sprengel

Loc. 11, 06.06.2009, B.Güler 503; Loc. 1, 07.07.2009, B.Güler 593.

152. *Turgenia latifolia (L.) Hoffm.

Loc. 7, 23.05.2009, B.Güler 434.

153. *Daucus carota* L.

Loc. 1, 03.11.2009, B.Güler 650.

ARALIACEAE

154. *Hedera helix* L.

Loc. 1, 10.01.2010, B.Güler 675; Loc. 1, 16.03.2009, B.Güler 049; Loc. 5, 16.08.2009, B.Güler 611; Loc. 6, 19.12.2009, B.Güler 670; Loc. 7, 03.11.2009, B.Güler 646.

CAPRIFOLIACEAE

155. *Lonicera etrusca* Santi var. *etrusca*

Loc. 14, 07.07.2009, B.Güler 576; Loc. 8, 23.05.2009, B.Güler 428.

Medit. element

RUBIACEAE

156. *Sherardia arvensis* L.

Loc. 7, 02.05.2009, B.Güler 218; Loc. 4, 02.05.2009, B.Güler 154; Loc. 1, 13.04.2009, B.Güler 092; Loc. 11, 24.05.2009, B.Güler 472; Loc. 11, 24.05.2009, B.Güler 477.

Medit. element?

157. *Crucianella angustifolia* L.

Loc. 8, 23.05.2009, B.Güler 418.

Medit. element

158. *C. imbricata* Boiss.

Loc. 7, 23.05.2009, B.Güler 457; Loc. 12, 06.06.2009, B.Güler 530.

E. Medit. element

159. *Galium spurium L. subsp. *spurium*

Loc. 4, 02.05.2009, B.Güler 155; Loc. 4, 02.05.2009, B.Güler 133.

Euro.-Sib. element

160. *G. penduliflorum* Boiss.

Loc. 7, 23.05.2009, B.Güler 437.

End., E. Medit. element

161. *G. brevifolium* Sm. subsp. *brevifolium*

Loc. 7, 23.05.2009, B.Güler 364; Loc. 7, 23.05.2009, B.Güler 438; Loc. 14, 24.04.2010, B.Güler 730.

End., E. Medit. element

162. *G. murale* (L.) All.

Loc. 2, 30.03.2009, B.Güler 060.

Medit. element

163. *Cruciata pedemontana* (Bellardi) Ehrend.

Loc. 3, 24.05.2009, B.Güler 473.

164. *Valantia hispida* L.

Loc. 1, 02.05.2009, B.Güler 196.

Medit. element

VALERIANACEAE

165. *Valerianella muricata* (Stev.) Baxt.

Loc. 14, 02.05.2009, B.Güler 227; Loc. 7, 23.05.2009, B.Güler 375.

DIPSACACEAE

166. *Knautia integrifolia* (L.) Bert var. *bidens* (Sm.) Borbas

Loc. 3, 18.05.2009, B.Güler 341; Loc. 4, 02.05.2009, B.Güler 126.

E. Medit. element

167. *K. integrifolia* (L.) Bert var. *integrifolia*

Loc. 19, 07.06.2009, B.Güler 543.

Medit. element

ASTERACEAE

168. *Tagetes minuta* L.

Loc. 1, 10.01.2010, B.Güler 677; Loc. 6, 19.12.2009, B.Güler 659; Loc. 6, 19.12.2009, B.Güler 666.

169. *Inula viscosa* (L.) Aiton

Loc. 14, 12.10.2009, B.Güler 631; Loc. 14, 03.11.2009, B.Güler 648; Loc. 9, 12.10.2009, B.Güler 639; Loc. 5, 30.09.2009, B.Güler 630.

Medit. element

170. *Pulicaria dysenterica* (L.) Bernh.

Loc. 1, 16.08.2009, B.Güler 605; Loc. 1, 17.09.2009, B.Güler 620.

171. *Filago vulgaris* Lam.

Loc. 7, 23.05.2009, B.Güler 388.

172. *F. eriocephala* Guss.

Loc. 12, 06.06.2009, B.Güler 521.

E. Medit. element

173. *Logfia arvensis* (L.) Holub

Loc. 19, 07.06.2009, B.Güler 539; Loc. 19, 07.06.2009, B.Güler 541.

174. *Conyza canadensis* (L.) Cronquist

Loc. 1, 16.08.2009, B.Güler 606; Loc. 1, 10.01.2010, B.Güler 679; Loc. 6, 19.12.2009, B.Güler 660.

175. *C. bonariensis* (L.) Cronquist

Loc. 1, 07.07.2009, B.Güler 591; Loc. 1, 17.09.2009, B.Güler 616; Loc. 14, 03.11.2009, B.Güler 645; Loc. 1, 10.01.2010, B.Güler 674; Loc. 9, 19.12.2009, B.Güler 661 Loc. 1, 03.07.2009, B.Güler 746.

176. *Bellis perennis* L.

Loc. 7, 30.03.2009, B.Güler 074; Loc. 7, 23.05.2009, B.Güler 440.

Euro.-Sib. element

177. *Doronicum orientale* Hoffm.

Loc. 1, 02.05.2009, B.Güler 214; Loc. 1, 28.03.2010, B.Güler 723.

178. *Senecio vulgaris* L.

Loc. 1, 02.03.2009, B.Güler 005; Loc. 6, 19.12.2009, B.Güler 657; Loc. 6, 28.03.2010, B.Güler 718.

179. *S. vernalis* Waldst. & Kit.

Loc. 7, 02.05.2009, B.Güler 231.

180. *Calendula arvensis* L.

Loc. 1, 16.03.2009, B.Güler 053; Loc. 1, 02.03.2009, B.Güler 006; Loc. 15, 14.02.2010, B.Güler 696; Loc. 6, 19.12.2009, B.Güler 667.

Medit. element

181. *Anthemis cretica* L. subsp. *leucanthemoides* (Boiss.) Grierson

Loc. 1, 02.03.2009, B.Güler 008.

182. *A. chia* L.

Loc. 1, 02.05.2009, B.Güler 213; Loc. 2, 03.05.2009, B.Güler 265; Loc. 3, 10.01.2010, B.Güler 684; Loc. 6, 19.12.2009, B.Güler 664.

E. Medit. element

183. *Chamaemelum mixtum* (L.) All.

Loc. 11, 06.06.2009, B.Güler 488.

Medit. element

184. *Chrysanthemum segetum* L.

Loc. 7, 23.05.2009, B.Güler 360; Loc. 8, 23.05.2009, B.Güler 413.

Medit. element

185. *C. coronarium* L.

Loc. 2, 03.05.2009, B.Güler 273.

186. *Tripleurospermum parviflorum* (Willd.) Pobed.

Loc. 8, 23.05.2009, B.Güler 419.

187. *Onopordum illyricum* L.

Loc. 18, 07.06.2009, B.Güler 558.

Medit. element

188. *Picnomon acarna* (L.) Cass.

Loc. 1, 16.08.2009, B.Güler 609.

189. *Carduus pycnocephalus* L. subsp. *albidus* (Bieb.) Kazmi

Loc. 4, 02.05.2009, B.Güler 165; Loc. 3, 18.05.2009, B.Güler 342.

190. *Centaurea solstitialis* L. subsp. *solstitialis*

Loc. 18, 07.06.2009, B.Güler 547.

191. *Cnicus benedictus* L. var. *benedictus*

Loc. 7, 02.05.2009, B.Güler 219 Loc. 2, 03.05.2009, B.Güler 270; Loc. 11, 06.06.2009, B.Güler 498; Loc. 12, 06.06.2009, B.Güler 532.

192. *Scolymus hispanicus* L.

Loc. 18, 06.07.2009, B.Güler 575.

Medit. element

193. *Tolpis barbata* (L.) Gaertner

Loc. 7, 23.05.2009, B.Güler 407.

Medit. element

194. *Tragopogon longirostris* Bisch. Ex Schultz Bip. var. *longirostris*

Loc. 1, 02.05.2009, B.Güler 191; Loc. 9, 17.05.2009, B.Güler 280.

195. *Hypochoeris radiata* L.

Loc. 1, 06.06.2009, B.Güler 507; Loc. 9, 23.05.2009, B.Güler 460; Loc. 9, 17.05.2009, B.Güler 332.

Euro.-Sib. element

196. *Picris paucifolia* Willd.

Loc. 9, 17.05.2009, B.Güler 330; Loc. 4, 02.05.2009, B.Güler 152.

Medit. element?

197. *Urospermum picroides* (L.) F.W.Schmidt

Loc. 4, 02.05.2009, B.Güler 125.

Medit. element

198. *Hedypnois cretica* (L.) Dum.-Cours.

Loc. 1, 06.06.2009, B.Güler 512; Loc. 11, 06.06.2009, B.Güler 497; Loc. 19, 07.06.2009, B.Güler 538.

Medit. element

199. *Sonchus asper* (L.) hill subsp. *glaucescens* (Jordan) Ball

Loc. 1, 02.05.2009, B.Güler 166.

200. *S. tenerrimus* L.

Loc. 6, 19.12.2009, B.Güler 668.

Medit. element

201. *Andryala integrifolia* L.

Loc. 7, 23.05.2009, B.Güler 384.

Medit. element

202. *Lapsana communis* L. subsp. *intermedia* (Bieb.) Hayek

Loc. 1, 06.06.2009, B.Güler 509; Loc. 1, 06.06.2009, B.Güler 506; Loc. 1, 07.07.2009, B.Güler 583.

203. *Taraxacum aleppicum* Dahlst.

Loc. 5, 30.09.2009, B.Güler 628; Loc. 6, 12.10.2009, B.Güler 636.

E. Medit. element

204. *T. aznavourii* van Soest

Loc. 9, 12.10.2009, B.Güler 637; Loc. 9, 19.12.2009, B.Güler 662.

End.

205. *Chondrilla juncea* L. var. *juncea*

Loc. 1, 17.09.2009, B.Güler 617.

206. *Crepis foetida* L. subsp. *commutata* (Spreng.) Babcock

Loc. 4, 02.05.2009, B.Güler 130; Loc. 4, 02.05.2009, B.Güler 136; Loc. 7, 23.05.2009, B.Güler 405.

207. *C. sancta* (L.) Babcock

Loc. 2, 03.05.2009, B.Güler 266; Loc. 11, 06.06.2009, B.Güler 501; Loc. 1, 02.03.2009, B.Güler 009; Loc. 1, 02.05.2009, B.Güler 173.

208. *C. dioscoridis* L.

Loc. 7, 23.05.2009, B.Güler 394.

E. Medit. element

CAMPANULACEAE

209. *Campanula lyrata* Lam. subsp. *lyrata*

Loc. 9, 17.05.2009, B.Güler 323; Loc. 7, 23.05.2009, B.Güler 400; Loc. 10, 24.05.2009, B.Güler 487.

End.

210. *Legousia speculum-veneris* (L.) Chaix

Loc. 4, 02.05.2009, B.Güler 129.

211. *L. pentagonia* (L.) Thellung

Loc. 12, 06.06.2009, B.Güler 520; Loc. 10, 07.06.2009, B.Güler 551; Loc. 10, 07.06.2009, B.Güler 556; Loc. 1, 07.07.2009, B.Güler 579; Loc. 7, 23.05.2009, B.Güler 403; Loc. 17, 24.05.2009, B.Güler 474; Loc. 14, 02.05.2009, B.Güler 229; Loc. 1, 03.07.2009, B.Güler 747.

E. Medit. element

ERICACEAE

212. *Arbutus unedo* L.

Loc. 8, 23.05.2009, B.Güler 430; Loc. 14, 03.11.2009, B.Güler 640; Loc. 17, 14.02.2010, B.Güler 695.

Medit. element

213. *A. andrachne* L.

Loc. 17, 14.02.2010, B.Güler 694.

E. Medit. element

PRIMULACEAE

214. *Cyclamen mirabile* Hildebr.

Loc. 9, 12.10.2009, B.Güler 632.

End., E. Medit. element

215. *Lysimachia dubia Sol.

Loc. 9, 17.05.2009, B.Güler 331.

E. Medit. element?

216. *Anagallis arvensis* L. var. *caerulea* (L.) Gouan

Loc. 3, 18.05.2009, B.Güler 350.

217. *A. foemina* Miller

Loc. 17, 24.05.2009, B.Güler 476.

Medit. element

STYRACACEAE

218. *Styrax officinalis* L.

Loc. 4, 02.05.2009, B.Güler 124; Loc. 1, 07.07.2009, B.Güler 578; Loc. 5, 16.08.2009, B.Güler 610; Loc. 1, 03.07.2009, B.Güler 748.

E. Medit. element

OLEACEAE

219. *Olea europaea* L. var. *europaea*

Loc. 9, 17.05.2009, B.Güler 290.

Medit. element

APOCYNACEAE

220. *Nerium oleander* L.

Loc. 1, 06.06.2009, B.Güler 518.

Medit. element

ASCLEPIADACEAE

221. *Periploca graeca* L. var. *graeca*

Loc. 1, 16.08.2009, B.Güler 608.

E. Medit. element

222. *Vincetoxicum canescens* (Willd.) Decne. subsp. *canescens*

Loc. 12, 06.06.2009, B.Güler 535.

Ir.-Tur. element

GENTIANACEAE

223. *Centaurium maritimum* (L.) Fritsch

Loc. 12, 06.06.2009, B.Güler 525.

Medit. element

CONVOLVULACEAE

224. *Convolvulus arvensis* L.

Loc. 1, 06.06.2009, B.Güler 514; Loc. 1, 16.08.2009, B.Güler 601.

BORAGINACEAE

225. *Heliotropium lasiocarpum* Fisch. & Mey.

Loc. 6, 06.07.2009, B.Güler 572; Loc. 19, 07.06.2009, B.Güler 542; Loc. 1, 30.05.2010, B.Güler 740.

Ir.-Tur. element

226. *Myosotis incrassata* Guss.

Loc. 2, 30.03.2009, B.Güler 057.

E. Medit. element

227. *M. cadmaea* Boiss.

Loc. 11, 06.06.2009, B.Güler 502; Loc. 7, 23.05.2009, B.Güler 357.

E. Medit. element

228. *M. ramosissima* Rochel ex Schultes subsp. *ramosissima*

Loc. 1, 13.04.2009, B.Güler 117; Loc. 4, 02.05.2009, B.Güler 147; Loc. 1, 28.03.2010, B.Güler 714.

229. *Echium plantagineum* L.

Loc. 4, 02.05.2009, B.Güler 143.

Medit. element

230. *E. angustifolium* Miller

Loc. 1, 07.07.2009, B.Güler 586; Loc. 8, 23.05.2009, B.Güler 422.

E. Medit. element

231. *Anchusa undulata* L. subsp. *hybrida* (Ten.) Coutinho

Loc. 7, 23.05.2009, B.Güler 393; Loc. 2, 03.05.2009, B.Güler 241; Loc. 1, 07.07.2009, B.Güler 585; Loc. 1, 16.03.2009, B.Güler 055; Loc. 7, 23.05.2009, B.Güler 449; Loc. 7, 02.05.2009, B.Güler 220; Loc. 4, 02.05.2009, B.Güler 131; Loc. 1, 03.07.2009, B.Güler 749.

Medit. element

232. *A. azurea* Miller var. *azurea*

Loc. 2, 03.05.2009, B.Güler 261.

233. *Alkanna orientalis* (L.) Boiss. var. *orientalis*

Loc. 1, 16.03.2009, B.Güler 056; Loc. 1, 06.06.2009, B.Güler 508; Loc. 1, 10.01.2010, B.Güler 682; Loc. 1, 28.03.2010, B.Güler 719.

Ir.-Tur. element

234. *A. tubulosa* Boiss.

Loc. 9, 17.05.2009, B.Güler 301.

End., E. Medit. element

SOLANACEAE

235. *Solanum nigrum* L. subsp. *nigrum*

Loc. 1, 17.09.2009, B.Güler 621; Loc. 1, 16.08.2009, B.Güler 607

SCHROPHULARIACEAE

236. *Verbascum napifolium* Boiss.

Loc. 14, 02.05.2009, B.Güler 232; Loc. 8, 23.05.2009, B.Güler 431; Loc. 4, 02.05.2009, B.Güler 164; Loc. 3, 02.05.2009, B.Güler 182.

End., E. Medit. element

237. *V. glomeratum* Hub.-Mor.

Loc. 4, 15.05.2010, B. Güler 735.

Ir.-Tur. element

238. *Schrophularia pinardii* Boiss.

Loc. 7, 02.05.2009, B.Güler 230.

End., E. Medit. element

239. *Antirrhinum majus* L. subsp. *majus*

Loc. 17, 24.05.2009, B.Güler 483.

240. *Linaria pelisseriana* (L.) Müller

Loc. 7, 02.05.2009, B.Güler 222.

Medit. element

241. *Veronica acinifolia* L.

Loc. 1, 16.03.2009, B.Güler 044.

242. *V. arvensis* L.

Loc. 1, 13.04.2009, B.Güler 089; Loc. 9, 17.05.2009, B.Güler 333; Loc. 7, 23.05.2009, B.Güler 389; Loc. 9, 17.05.2009, B.Güler 334; Loc. 1, 13.04.2009, B.Güler 090.

Euro.-Sib. element

243. *V. triphyllus L.

Loc. 1, 02.03.2009, B.Güler 010; Loc. 1, 16.03.2009, B.Güler 040; Loc. 15, 14.02.2010, B.Güler 701.

244. *V. donii* Römpf

Loc. 7, 23.05.2009, B.Güler 387; Loc. 6, 30.03.2009, B.Güler 068.

End., E. Medit. element

245. *V. cymbalaria* Bodard

Loc. 4, 02.05.2009, B.Güler 145; Loc. 7, 23.05.2009, B.Güler 439; Loc. 1, 02.03.2009, B.Güler 004; Loc. 1, 10.01.2010, B.Güler 680; Loc. 15, 14.02.2010, B.Güler 697.

Medit. element

246. *V. anagallis-aquatica* L.

Loc. 9, 23.05.2009, B.Güler 471.

247. *Parentucellia latifolia* (L.) Caurel subsp. *latifolia*

Loc. 1, 13.04.2009, B.Güler 101; Loc. 1, 28.03.2010, B.Güler 711.

Medit. element

248. *Bellardia trixago* (L.) All.

Loc. 9, 17.05.2009, B.Güler 282.

Medit. element

OROBANCHACEAE

249. *Orobanche minor* Sm.

Loc. 4, 02.05.2009, B.Güler 158; Loc. 7, 23.05.2009, B.Güler 433.

Medit. element

VERBENACEAE

250. *Verbena officinalis* L.

Loc. 1, 17.09.2009, B.Güler 618; Loc. 1, 16.08.2009, B.Güler 603; Loc. 1, 07.07.2009, B.Güler 595.

251. *Vitex agnus-castus* L.

Loc. 7, 06.07.2009, B.Güler 570; Loc. 7, 06.07.2009, B.Güler 565; Loc. 1, 03.07.2009, B.Güler 750.

Medit. element

LAMIACEAE (LABIATAE)

252. *Lavandula stoechas* L. subsp. *cariensis* (Boiss.) Rozeira
Loc. 3, 30.03.2009, B.Güler 085; Loc. 14, 02.05.2009, B.Güler 235; Loc. 11, 06.06.2009, B.Güler 491.

End., E. Medit. element

253. *Marrubium vulgare* L.

Loc. 3, 18.05.2009, B.Güler 352; Loc. 3, 15.05.2010, B.Güler 732.

254. *Sideritis lanata* L.

Loc. 3, 02.05.2009, B.Güler 180; Loc. 7, 23.05.2009, B.Güler 395.

E. Medit. element

255. *Stachys cretica* L. subsp. *smyrnaea* Rech. Fil.

Loc. 7, 23.05.2009, B.Güler 410.

End., E. Medit. element

256. *Melissa officinalis* L. subsp. *altissima* (Sm.) Arcangeli

Loc. 1, 07.07.2009, B.Güler 590; Loc. 14, 24.04.2010, B.Güler 729.

E. Medit. element

257. *Nepeta nuda L. subsp. *albifolia* (Boiss.) Gams

Loc. 1, 07.07.2009, B.Güler 587.

258. *Calamintha nepeta* (L.) Savi subsp. *glandulosa* (Req.) P.W. Ball

Loc. 1, 07.07.2009, B.Güler 580.

259. *Clinopodium vulgare* L. subsp. *arundanum* (Boiss.) Nyman.

Loc. 14, 03.11.2009, B.Güler 643; Loc. 14, 03.11.2009, B.Güler 644.

260. *Micromeria myrtifolia* Boiss. & Hohen.

Loc. 8, 23.05.2009, B.Güler 415.

261. *Mentha pulegium* L.

Loc. 9, 12.10.2009, B.Güler 638; Loc. 1, 07.07.2009, B.Güler 582; Loc. 9, 07.06.2009, B.Güler 564.

Medit. element

262. *M. longifolia* (L.) Hudson subsp. *typhoides* (Briq.) Harley var. *thypoides*

Loc. 1, 16.08.2009, B.Güler 604; Loc. 1, 17.09.2009, B.Güler 619.

263. *Ziziphora tenuior* L.

Loc. 11, 06.06.2009, B.Güler 492.

Ir.-Tur. element

264. *Salvia tomentosa* Miller

Loc. 7, 23.05.2009, B.Güler 453.

Medit. element

265. *S. virgata* Jacq.

Loc. 1, 16.03.2009, B.Güler 054; Loc. 9, 17.05.2009, B.Güler 295; Loc. 1, 10.01.2010, B.Güler 683.

PLANTAGINACEAE

266. *Plantago coronopus* L. subsp. *commutata* (Guss.) Pilger

Loc. 2, 03.05.2009, B.Güler 250; Loc. 8, 23.05.2009, B.Güler 414; Loc. 12, 06.06.2009, B.Güler 524.

E. Medit. element

267. *P. lanceolata* L.

Loc. 1, 13.04.2009, B.Güler 109; Loc. 9, 23.05.2009, B.Güler 467; Loc. 10, 28.03.2010, B.Güler 708.

268. *P. lagopus* L.

Loc. 19, 07.06.2009, B.Güler 537.

Medit. element

269. *P. cretica* L.

Loc. 2, 03.05.2009, B.Güler 256.

Medit. element

270. *P. bellardii* All.

Loc. 14, 02.05.2009, B.Güler 234; Loc. 14, 23.05.2009, B.Güler 365; Loc. 12, 06.06.2009, B.Güler 528; Loc. 11, 06.06.2009, B.Güler 500.

E. Medit. element

ARISTOLOCHIACEAE

271. *Aristolochia hirta* L.

Loc. 1, 07.07.2009, B.Güler 588; Loc. 1, 06.06.2009, B.Güler 510; Loc. 1, 30.05.2010, B.Güler 741.

End., E. Medit. element

EUPHORBIACEAE

272. *Mercurialis annua* L.

Loc. 1, 03.11.2009, B.Güler 649; Loc. 9, 17.05.2009, B.Güler 329; Loc. 7, 23.05.2009, B.Güler 406; Loc. 1, 01.12.2009, B.Güler 654.

273. *Euphorbia helioscopia* L.

Loc. 6, 30.03.2009, B.Güler 081; Loc. 2, 03.05.2009, B.Güler 243.

274. *E. peplus* L. var. *peplus*

Loc. 17, 24.05.2009, B.Güler 475; Loc. 1, 10.01.2010, B.Güler 681.

275. *E. taurinensis* All.

Loc. 7, 23.05.2009, B.Güler 376; Loc. 7, 02.05.2009, B.Güler 223.

***276. *E. anacampseros* var. *anacampseros* Boiss.**

Loc. 14, 02.05.2009, B.Güler 236; Loc. 3, 18.05.2009, B.Güler 353.

URTICACEAE

277. *Urtica pilulifera* L.

Loc. 4, 02.05.2009, B.Güler 142.

Medit. element

278. *U. dioica* L.

Loc. 9, 07.06.2009, B.Güler 561.

Euro.-Sib. element

279. *Parietaria judaica* L.

Loc. 9, 17.05.2009, B.Güler 322; Loc. 1, 07.07.2009, B.Güler 577.

280. *P. lusitanica* L.

Loc. 1, 17.05.2009, B.Güler 319; Loc.1, 23.05.2009, B.Güler 429.

Medit. element

MORACEAE

281. *Morus alba* L.

Loc. 9, 17.05.2009, B.Güler 287; Loc. 6, 06.07.2009, B.Güler 568; Loc. 4, 02.05.2009, B.Güler 150.

282. *Ficus carica* L. subsp. *carica*

Loc. 9, 17.05.2009, B.Güler 299.

E. Medit. element

JUGLANDACEAE

283. *Juglans regia* L.

Loc. 9, 23.05.2009, B.Güler 469; Loc. 9, 17.05.2009, B.Güler 292; Loc. 1, 02.05.2009, B.Güler 168.

PLATANACEAE

284. *Platanus orientalis* L.

Loc.9, 17.05.2009, B.Güler 297.

FAGACEAE

285. *Castanea sativa* Miller

Loc. 7, 16.08.2009, B.Güler 613; Loc. 6, 06.07.2009, B.Güler 569; Loc. 9, 17.05.2009, B.Güler 289.

Euro.-Sib. element

286. *Quercus aucheri* Jaub. & Spach

Loc. 9, 17.05.2009, B.Güler 288.

End., E. Medit. element

287. *Q. coccifera* L.

Loc. 14, 03.11.2009, B.Güler 641; Loc. 14, 23.05.2009, B.Güler 462; Loc. 3, 18.05.2009, B.Güler 355; Loc. 9, 17.05.2009, B.Güler 298.

Medit. element

SALICACEAE

288. *Populus alba* L.

Loc. 9, 15.05.2010, B.Güler 721.

MONOCOTYLEDONES

ARACEAE

289. *Dracunculus vulgaris* Schott

Loc. 10, 07.06.2009, B.Güler 557; Loc. 1, 07.07.2009, B.Güler 584; Loc. 1, 03.07.2009, B.Güler 742.

E. Medit. element

LILIACEAE

290. *Asparagus acutifolius* L.

Loc. 3, 30.03.2009, B.Güler 088; Loc. 1, 03.11.2009, B.Güler 652; Loc. 6, 19.12.2009, B.Güler 663; Loc. 1, 28.03.2010, B.Güler 722.

Medit. element

291. *Allium flavum* L. subsp. *flavum* var. *flavum*

Loc. 12, 06.06.2009, B.Güler 522.

Medit. element

292. *A. ampeloprasum* L.

Loc. 1, 07.07.2009, B.Güler 597; Loc. 1, 07.07.2009, B.Güler 598.

Medit. element

293. *A. scorodoprasum* L. subsp. *rotundum* (L.) Stearn

Loc. 1, 07.07.2009, B.Güler 600; Loc. 1, 07.07.2009, B.Güler 599.

***294. *Scilla bifolia* L.**

Loc. 10, 14.02.2010, B.Güler 703.

Medit. element?

295. *Ornithogalum pyrenaicum* L.

Loc. 10, 07.06.2009, B.Güler 546.

296. *O. armeniacum* Baker

Loc. 3, 30.03.2009, B.Güler 087.

E. Medit. element

297. *O. nutans* L.

Loc. 1, 13.04.2009, B.Güler 122; Loc. 1, 13.04.2009, B.Güler 123; Loc. 2, 02.05.2009, B.Güler 160; Loc. 10, 28.03.2010, B.Güler 707; Loc. 6, 30.03.2009, B.Güler 067.

E. Medit. element

298. *Muscari comosum* (L.) Miller

Loc. 2, 02.05.2009, B.Güler 132; Loc. 1, 13.04.2009, B.Güler 118; Loc. 1, 16.03.2009, B.Güler 046; Loc. 7, 02.05.2009, B.Güler 225.

Medit. element

*299. *M. tenuiflorum* Tausch

Loc. 6, 30.03.2009, B.Güler 118.

300. *Gagea peduncularis* (J. & C. Presl) Pascher

Loc. 6, 30.03.2009, B.Güler 073; Loc. 17, 14.02.2010, B.Güler 690.

Medit. element

IRIDACEAE

*301. *Crocus biflorus* Miller subsp. *nubigena* (Herbert) Mathew

Loc. 14, 14.02.2010, B.Güler 705.

End., E. Medit. element

302. *C. pallasii* Goldb. subsp. *pallasii*

Loc. 14, 03.11.2009, B.Güler 647.

303. *Romulea linaresii* Parl. subsp. *graeca* Bég.

Loc. 1, 16.03.2009, B.Güler 037.

E. Medit. element

304. *R. ramiflora* Ten. subsp. *ramiflora*

Loc. 6, 30.03.2009, B.Güler 069; Loc. 6, 30.03.2009, B.Güler 070; Loc. 17, 14.02.2010, B.Güler 692.

Medit. element

ORCHIDACEAE

305. *Limodorum abortivum* (L.) Swartz

Loc. 7, 23.05.2009, B.Güler 443; Loc. 7, 23.05.2009, B.Güler 444.

306. *Serapias vomeracea* (Burm. fil.) Briq. subsp. *laxiflora* (Soo) Gözl & Reinhard

Loc. 6, 07.06.2009, B.Güler 563.

E. Medit. element

307. *Orchis coriophora* L.

Loc. 9, 07.06.2009, B.Güler 562.

Medit. element

308. *O. papilionacea* L. var. *papilionacea*

Loc. 9, 17.05.2009, B.Güler 315.

Medit. element

DIOSCOREACEAE

309. *Thamus communis* L. subsp. *cretica* (L.) Kit Tan

Loc. 1, 02.05.2009, B.Güler 175; Loc. 7, 23.05.2009, B.Güler 458.

JUNCACEAE

310. *Juncus acutus* L.

Loc. 15, 14.02.2010, B.Güler 702.

CYPERACEAE

311. *Cyperus longus* L.

Loc. 17, 24.05.2009, B.Güler 480; Loc. 3, 18.05.2009, B.Güler 347.

Medit. element

312. *Carex otrubae* Podp.

Loc. 1, 02.05.2009, B.Güler 195; Loc. 9, 23.05.2009, B.Güler 465.

Euro.-Sib. element?

POACEAE (GRAMINEAE)

313. *Hordeum murinum* L. subsp. *glaucum* (Steudel) Tzvelev

Loc. 1, 13.04.2009, B.Güler 116.

Ir.-Tur. element

314. *H. bulbosum* L.

Loc. 2, 02.05.2009, B.Güler 128.

Medit. element

315. *Bromus hordeaceus* L. subsp. *hordeaceus*

Loc. 3, 02.05.2009, B.Güler 179; Loc. 1, 02.05.2009, B.Güler 199; Loc. 1, 02.05.2009, B.Güler 210.

316. *B. tectorum* L.

Loc. 1, 13.04.2009, B.Güler 107.

317. *B. sterilis* L.

Loc. 9, 17.05.2009, B.Güler 320; Loc. 4, 02.05.2009, B.Güler 153; Loc. 1, 02.05.2009, B.Güler 198.

318. *Avena barbata* Pott ex Link subsp. *barbata*

Loc. 6, 30.03.2009, B.Güler 080; Loc. 1, 02.05.2009, B.Güler 206; Loc. 1, 30.05.2010, B.Güler 739.

Medit. element

319. *Rostraria cristata* (L.) Tzvelev var. *cristata*

Loc. 9, 17.05.2009, B.Güler 309.

*320. *Koeleria cristata* (L.) Pers.

Loc. 1, 02.05.2009, B.Güler 189; Loc. 9, 17.05.2009, B.Güler 304.

Medit. element

321. *Aira elegantissima* Schur subsp. *ambigua* (Arc.) M. Doğan

Loc. 2, 03.05.2009, B.Güler 246.

322. *A. elegantissima* Schur subsp. *elegantissima*

Loc. 9, 17.05.2009, B.Güler 313; Loc. 11, 06.06.2009, B.Güler 504.

Medit. element

323. *Lagurus ovatus* L.

Loc. 9, 17.05.2009, B.Güler 325.

Medit. element

324. *Phleum subulatum* (Savi) Aschers. & Graebn. subsp. *subulatum*

Loc. 8, 23.05.2009, B.Güler 424.

Medit. element

325. *P. exaratum* Hochst. & Griseb. subsp. *exaratum*

Loc. 3, 18.05.2009, B.Güler 337; Loc. 9, 23.05.2009, B.Güler 468.

326. *Lolium temulentum* L. var. *temulentum*

Loc. 3, 18.05.2009, B.Güler 338; Loc. 8, 23.05.2009, B.Güler 420.

Medit. element

327. *L. rigidum* Gaudin var. *rigidum*

Loc. 1, 17.05.2009, B.Güler 284.

Medit. element

328. *Poa trivialis* L.

Loc. 9, 17.05.2009, B.Güler 303; Loc. 9, 17.05.2009, B.Güler 302; Loc. 1, 02.05.2009, B.Güler 203; Loc. 2, 03.05.2009, B.Güler 268.

329. *P. nemoralis* L.

Loc. 7, 23.05.2009, B.Güler 371; Loc. 11, 06.06.2009, B.Güler 489.

330. *P. bulbosa* L.

Loc. 4, 02.05.2009, B.Güler 149; Loc. 7, 3.05.2009, B.Güler 402; Loc. 1, 13.04.2009, B.Güler 106; Loc. 1, 02.05.2009, B.Güler 197; Loc. 4, 02.05.2009, B.Güler 146.

331. *Cynosurus echinatus* L.

Loc. 7, 02.05.2009, B.Güler 224.

Medit. element

332. *Briza maxima* L.

Loc. 12, 06.06.2009, B.Güler 526; Loc. 1, 02.05.2009, B.Güler 172.

333. *B. minor* L.

Loc. 7, 23.05.2009, B.Güler 442; Loc. 10, 07.06.2009, B.Güler 545.

Medit. element

334. *Melica ciliata* L. subsp. *ciliata*

Loc. 7, 23.05.2009, B.Güler 435.

Medit. element

335. *M. ciliata* L. subsp. *magnolii* (Gren. & Godr.) Husnot

Loc. 10, 07.06.2009, B.Güler 548.

Medit. element

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