

R. Karousou, E. Hanlidou, P. Kokkini, D. Koufou & S. Kokkini

## On the flora of Mount Stratonikon (GR1270005), a NATURA 2000 site of N Greece

### Abstract

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The results of a floristic survey carried out in Mount Stratonikon (GR1270005), a Site of Community Importance included in the European NATURA 2000 network are presented. A total number of 404 vascular plant taxa were recorded, belonging to 260 genera and 83 families. Hemicryptophytes are prevailing (43.4% of the taxa), followed by Therophytes (19.2%) and Phanerophytes (18.7%). Eurasiatic taxa represent 40.1% of the chorological spectrum, followed by Mediterranean taxa (34.8%). One NE Greek endemic, *Acinos alpinus* subsp. *nomismophyllus*, was recorded. Moreover, 13 Balkan endemics (3.3% of the taxa recorded) were found, among them some, restricted in N Greece taxa (*Rorripa thracica*, *Berteroa orbiculata*, *Cephalaria flava* subsp. *flava* and *Digitalis viridiflora*). Finally, seven spontaneously growing xenophytes were found.

*Key words:* Flora, Natura 2000 network, Balkan Peninsula.

### Introduction

Mount Stratonikon is included in the European Natura 2000 Network of Sites of Community Importance (Commission of European Communities 2006) under the name Oros Stratonikon – Koryfi Skamni (GR1270005). The network was established to implement Directive 92/43/EEC on the conservation of natural habitats and of wild fauna and flora (Council of Europe 1992). The site comprises habitat types listed in the Annexes of the Directive however, the existing phytodiversity knowledge is quite deficient. There is no published information on the flora of the area, while a phytosociological study (Dafis 1966) was carried out in the adjacent area.

The present study represents the first floristic survey of Mount Stratonikon and is a part of a wider research aiming to the conservation of the biodiversity of site.

**The study area**

Mount Stratonikon lies in N Greece (40° 33' N / 23° 47' E), in the eastern part of Chalkidiki peninsula. The site covers a total surface of 7928 ha and has a mean altitude of 400 m, while the highest summit reaches 912 m (Fig. 1). Ancient Stagira, the birthplace of Aristotle, lies within the site.

Climatic data of the period 1978-1995, recorded in the nearest Meteorological Station, run in Arnea by the local Forest Service, show a Mean Annual Temperature 12.4° C and a Mean Annual Precipitation 651 mm. The Mean Month Temperature ranges from 2.4° C (January) to 22.7° C (July). The climate of the area is transitional between the Continental Mediterranean and the Real Mediterranean (Kotini-Zambaka 1983) and is classified to the accentuated mesomediterranean type (Tselepidakis & Theoharatos 1989). The mountain mainly consists of biotite gneiss (Kockel & al. 1978)

The site is covered by forests coreponding to seven habitat types, as defined in the Interpretation Manual of European habitats (European Commision 2003) and Dafis & al. (2001). Six of them are found in Annex I of the Directive 92/43/EEC (Council of Europe 1992).

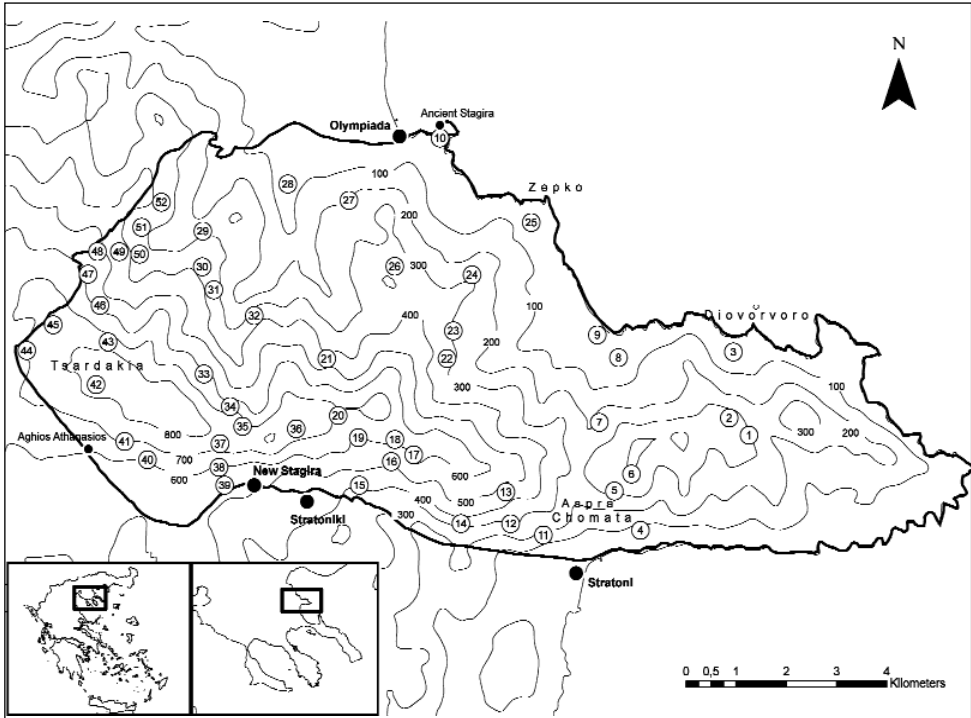


Fig. 1. Map of Mount Stratonikon (GR1270005). The numbers indicate the collection localities.

***Quercus ilex* forests** (NATURA code 9340), composed of mediterranean evergreen species, mainly *Quercus ilex*, *Arbutus unedo*, *Erica arborea* etc. This habitat covers the largest part of the site, at altitudes from sea level to 300 m.

***Castanea sativa* woods** (9260), occurring mainly in the NW part of the site, on N, NE and NW facing slopes, at altitudes between 300 and 600m.

***Asperulo-Fagetum* beech forests** (9130), occurring mainly in the W part of the site, on N and NW facing slopes, at the higher altitudes of the site (500-912 m).

**Eastern and Balkanic thermophilous oak woods** (924A), found mainly in the NW part of the site. They are forests of: a) *Quercus frainetto*, occurring on the S, SE and SW facing slopes, between 250 and 600 m, and b) *Q. petraea* subsp. *medwediewii*, on NW and W facing slopes, between 350 and 450 m. Mixed forests of both taxa are found on N and NE slopes, between 300 and 350 m.

***Tilio-Acerion* forests of slopes, screes and ravines** (9180). Stands of *Tilia tomentosa*, *T. platyphyllos*, *Acer hyrcanum*, *A. pseudoplatanus*, *Fagus sylvatica*, *Quercus petraea* subsp. *medwediewii* and *Q. frainetto* are found mainly in ravines at altitudes from 300 to 500 m.

***Quercus frainetto* woods** (9280), i.e. mixed forests of *Fagus sylvatica* and *Quercus frainetto*, occurring mainly in the SW part of the site. They are found on N and NW facing slopes at altitudes between 300 and 700 m.

***Platanus orientalis* woods** (92C0) scattered in the site, by streams.

Besides the above forest habitats, a grassland formation corresponding to habitat type "Lowland hay meadows (*Alopecurus pratensis*, *Sanguisorba officinalis*) – 6510 covers a very small area in the central part of the site. Moreover, forestations with native pines in Greece (mainly *P. halepensis* s. lat., *P. pinaster* more rarely) and, in a few locations, with the non-native *Cedrus atlantica* and *Pseudotsuga menziensis*, are found mainly in the E part of the site.

## Materials and Methods

The floristic data presented here are based on collections made by the authors during the years 1999-2001 and 2004-2005.

Voucher specimens are deposited in the Herbarium of the Laboratory of Systematic Botany and Phytogeography, Aristotle University of Thessaloniki (TAU).

In the floristic catalogue families, genera and species are presented in alphabetical order within the major classification units, viz. *Pteridophyta*, *Gymnospermae*, *Dicotyledonae* and *Monocotyledonae*.

Taxonomy and nomenclature follow Flora Hellenica (Strid & Tan 1997- 2000) and Mountain Flora of Greece (Strid 1986; Strid & Tan 1991) for the taxa therein included and Flora Europaea (Tutin & al. 1968-1980, 1993). The genera *Mentha* and *Origanum* are according to Kokkini (1983) and Ietswaart (1980) respectively and *Scutellaria albida* group is according to Bothmer (1985).

Information concerning life form and chorology derives from the extended list distributed by Pignatti during the 16<sup>th</sup> Workshop of the European Vegetation Survey (Catania, Italy 2006) for the taxa therein included. Further information is drawn from Strid (1986), Strid & Tan (1991, 1997-2000) and Davis (1965-1985). The grouping to chorological units (Table 2) is largely based in Pignatti (loc cit.).

The collection localities (Fig. 1) indicated in the floristic catalogue are listed below. The 4-digit numbers correspond to the habitat type of each locality (for explanation see introduction). The localities are scattered across the whole NATURA 2000 site and cover all the existing habitat types.

1. S of Diovórvoro. 924A. 400 m.
2. S of Diovórvoro. 9260. 300 m.
3. E of Diovórvoro. 9340. 40 m.
4. NE of Stratóni. 9340. 100 m.
5. Áspra Chómata. 9280. 300m.
6. Áspra Chómata towards Tria Adélfia. 924A. 400 m.
7. N-NW of Áspra Chómata. 92C0. 280 m.
8. S-SE of Zépko. 92C0. 10 m.
9. S-SE of Zépko. 6510. 0m.
10. Ancient Stágira. 9340. 50 m.
11. NW of Stratóni. 9340. 200 m.
12. Ágios Nikólaos chapel. 9340. 330m
13. NW of Ágios Nikólaos chapel. 924A. 450 m.
14. W of Ágios Nikólaos chapel. 924A. 500 m.
15. E-NE of Stratoníki. 9340. 500 m.
16. NE of Stratoníki. 9130. 570 m.
17. NE of Stratoníki. 924A. 680 m.
18. Giánnovo. 9130. 650 m.
19. Ágios Geórgios shrine. 9130. 580m.
20. N-NE of Stratoníki. 9130. 750m.
21. N of Stratoníki. 9180. 500 m.
22. Near Kalogerikó. 9260. 300m.
23. Near Kalogerikó. 924A. 360 m.
24. Papádes. 9260. 320 m.
25. Zépiko. 9340. 50m.
26. Gýftissa. 924A. 350 m.
27. Between Chalvatzídes and Petrólakkos. 924A. 250m.
28. NW of Chalvatzídes. 92C0. 30 m.
29. Xeráda. 924A. 300 m.
30. Mariás Déntro. 924A. 360 m.
31. S-SE of Mariás Déntro. 9260. 320 m.
32. SE of Mariás Déntro. 9180. 350m.
33. NE of Ágios Athanásios. 9130. 600 m.
34. E-NE of Ágios Athanásios. 9130. 650 m.
35. E-NE of Ágios Athanásios. 9130. 700 m.
36. NE of New Stágira. Forestation area. 700m.
37. E of Ágios Athanásios. 9130. 750 m.
38. E-SE of Ágios Athanásios. 9260. 600 m.
39. E-SE of Ágios Athanásios. 92C0. 580 m.
40. E-SE of Ágios Athanásios. 9280. 600 m.
41. E of Ágios Athanásios. 9280. 700 m.

42. Tsardákia. 9130. 725 m.
43. N-NE of Tsardákia. 9130. 550 m.
44. E of Varvára. 9130. 700 m.
45. S of Aetorráchi. 9130. 750 m.
46. NE of Varvára. 9130. 520.
47. Lákkos. 9260. 600m.
48. NE of Lákkos. 924A. 400 m.
49. NE of Lákkos. 9280. 450 m.
50. Between Lákkos and Mariás Déntro. 924A. 300 m.
51. NE of Lákkos. 924A. 350 m.
52. NE of Lákkos. 9260. 350 m.

### Floristic catalogue

The numbers correspond to the collection localities shown in Fig. 1.

### PTERIDOPHYTA

#### ASPIDIACEAE

*Polystichum braunii* (Spenner) Feé – G rhiz, Circumbor. – 50, 52.

*P. setiferum* (Forsk.) Woyнар – G rhiz, Circumbor. – 18, 19.

#### ASPLENIACEAE

*Asplenium adiantum-nigrum* L. – H ros, Paleotemp. & Subtrop. – 1, 5, 18, 19, 21, 23, 27, 29, 32, 48, 50, 52.

#### ATHYRIACEAE

*Cystopteris fragilis* (L.) Bernh. – H caesp, Subcosmop. – 13, 30.

#### EQUISETACEAE

*Equisetum arvense* L. – G rhiz, Circumbor. – 8, 28.

*E. palustre* L. – G rhiz, Circumbor. – 32, 46.

#### HYPOLEPIDACEAE

*Pteridium aquilinum* (L.) Kuhn – G rhiz, Cosmopol. – 1, 3, 8, 15, 17-24, 26, 31, 33-35, 38-40, 41, 43, 45-47, 49-51.

### GYMNOSPERMAE

#### CUPRESSACEAE

*Juniperus communis* L. subsp. *communis* – P caesp, Circumbor. – 38, 39, 44.

*J. oxycedrus* L. subsp. *oxycedrus* – P caesp, Eurasiat. – 1, 3, 6, 10, 13, 15, 18, 20, 25, 27, 29, 37, 39, 44.

#### PINACEAE

*Cedrus atlantica* (Endl.) Carrière – P caesp, W-Stenomedit., planted in forestations – 36.

*Pinus halepensis* Miller subsp. *brutia* (Ten.) Holmboe – P scap, NE-Medit.-Mont. – 3, 10

*P. pinaster* Aiton – P scap, W-Stenomedit., planted in forestations –15, 36, 39.

*Pseudotsuga menziesii* (Mirbel) Franco – P scap, N America, planted in forestations – 36.

#### TAXACEAE

*Taxus baccata* L. – P scap, Paleotemp. – 46.

### DICOTYLEDONAE

#### ACERACEAE

*Acer opalus* Miller subsp. *hyrcanum* (Fischer & C.A. Meyer) E. Murray – P scap, Eurasiat.  
– 19, 21, 32, 50, 52.

*A. pseudoplatanus* L. – P scap, Europ.-Caucas. – 21, 32.

#### AMARANTHACEAE

*Amaranthus albus* L. – T scap, xenophyte (N America) – 10.

*A. deflexus* L. – T scap, xenophyte (S America) – 10.

#### ANACARDIACEAE

*Pistacia lentiscus* L. – P caesp, S-Stenomedit. – 4, 15.

*P. terebinthus* L. – P caesp, Eurymedit. – 4, 10, 15, 25.

#### AQUIFOLIACEAE

*Ilex aquifolium* L. – P caesp, Eurymedit. – 19, 21, 24, 31, 32, 38, 40, 41, 44-47, 50, 52.

#### ARALIACEAE

*Hedera helix* L. – P lian, Eurymedit. – 5, 7, 8, 10, 18, 19, 21, 22, 24, 26, 28, 30-33, 38, 43,  
44-47, 49, 50, 52.

#### ARISTOLOCHIACEAE

*Aristolochia pallida* Willd. – G bulb, Eurymedit. – 40.

*A. rotunda* L. – G bulb, Eurymedit. – 17.

#### BETULACEAE

*Alnus glutinosa* (L.) Gaertner – P scap, Paleotemp. – 7, 8, 28.

*Carpinus orientalis* Miller – P caesp, Pontic – 19.

*Corylus avellana* L. – P caesp, Europ.-Caucas. – 15, 16.

*Ostrya carpinifolia* Scop. – P caesp, Circumbor. – 21, 31, 32, 47, 52, 50.

#### BORAGINACEAE

*Buglossoides purpurocaerulea* (L.) I. M. Johnston – H scap, Pontic – 25.

*Cerithe minor* L. – T scap, SE-Europ. – 15.

*Cynoglossum creticum* Miller – H bienn, Eurymedit. – 14.

*Echium italicum* L. – H bienn, Eurymedit. – 10.

*E. plantagineum* L. – T scap, Eurymedit. – 3.

*Heliotropium europaeum* L. – T scap, Eurymedit. – 12.

- Myosotis sylvatica* Ehrh. ex Hoffm. subsp. *cyanea* (Boiss. & Heldr. ex Hayek) Vestergren  
– H scap, NE-Stenomedit. – 6, 13, 21, 34, 35, 43, 49, 52.  
*Symphytum bulbosum* Schimper – G rhiz, SE-Europ. – 7, 8, 28, 44.  
*S. ottomanum* Friv. – H scap, NE-Stenomedit. – 48-50.

#### CAMPANULACEAE

- Campanula cervicaria* L. – H scap, Europ. – 19.  
*C. lingulata* Waldst. & Kit. – H bienn, SE-Europ. – 1, 10, 29.  
*C. patula* L. – H bienn, Eurasiat. – 9.  
*C. persicifolia* L. – H scap, Eurasiat. – 13, 17, 19-21, 24, 26, 31, 32, 34, 35, 37, 41, 46, 48, 50.  
*C. trachelium* L. subsp. *athoa* (Boiss & Heldr.) Hayek – H scap, NE-Stenomedit. – 5, 19, 20, 22-24, 26, 31, 33, 34, 35, 40, 41, 43, 45, 47, 49, 50, 52.  
*Jasione heldreichii* Boiss. & Orph. – H bienn, NE-Stenomedit. – 20.

#### CANNABACEAE

- Humulus lupulus* L. – P lian, Europ.-Caucas. – 3, 7, 8, 28.

#### CAPRIFOLIACEAE

- Lonicera implexa* Aiton – P lian, Stenomedit. – 10.  
*Sambucus ebulus* L. – G rhiz, Eurymedit. – 12, 18, 19.  
*S. nigra* L. – P caesp, Europ.-Caucas. – 46.

#### CARYOPHYLLACEAE

- Cerastium pumilum* Curtis subsp. *glutinatum* (Fries) Corb. – T scap, Eurymedit. – 10.  
*Dianthus cruentus* Griseb. – H scap, Balkan endemic – 19, 20, 37, 38.  
*D. pinifolius* Sm. subsp. *pinifolius* – H scap, NE-Stenomedit. – 20.  
*Herniaria incana* Lam. – H caesp, Eurymedit. – 10, 15.  
*Petrorhagia prolifera* (L.) P. W Ball & Heywood – T scap, Eurymedit. – 1, 10, 19, 29.  
*Saponaria officinalis* L. – H scap, Eurosib. – 18.  
*Silene atropurpurea* (Griseb.) Greuter & Burdet – H ros, Balkan endemic – 19.  
*S. coronaria* (L.) Clairv. – H scap, Eurymedit.-Turan. – 1, 6, 13, 19, 21, 23, 27, 29, 30, 32, 38, 39, 50, 52.  
*S. italica* (L.) Pers. – H ros, Eurymedit. – 10.  
*S. viridiflora* L. – H ros, S-Europ.-S-Siber. – 1, 29, 30, 33.  
*S. vulgaris* (Moench) Garcke – H scap, Paleotemp. – 17, 19, 22, 24, 30, 31, 37, 38, 40.  
*Stellaria media* (L.) Vill. – T rept, Cosmopol. – 19.

#### CHENOPODIACEAE

- Chenopodium album* L. – T scap, Subcosmop. – 10.

#### CISTACEAE

- Cistus incanus* L. – NP, Stenomedit. – 1, 3, 4, 10, 22, 25, 27, 29.  
*C. salviifolius* L. – NP, Stenomedit. – 3, 4, 10, 15.  
*Tuberaria guttata* (L.) Fourr. – T scap, Eurymedit. – 10.

## COMPOSITAE

- Achillea coarctata* Poiret. – H scap, SE-Europ. – 4, 8, 10, 25.  
*A. grandifolia* Friv. – H scap, NE-Stenomedit. – 47.  
*A. millefolium* L. – H scap, Eurosib. – 17, 20, 37, 38.  
*Anthemis arvensis* L. subsp. *incrassata* (Loisel.) Nyman – T scap, Stenomedit. – 15.  
*A. austriaca* Jacq. – T scap, SE-Europ. – 15, 18-20, 38, 39.  
*A. tinctoria* L. subsp. *tinctoria* – H bienn, Eurasiat. – 1, 5, 21, 22, 26, 29.  
*Arctium tomentosum* Miller – H bienn, Eurasiat. – 38.  
*Bellis hybrida* Ten. – H ros, S-Europ. – 10, 39.  
*Carlina corymbosa* L. subsp. *corymbosa* – H scap, NE-Stenomedit. – 1.  
*C. vulgaris* L. – H scap, Eurosib. – 10.  
*Carthamus lanatus* L. – T scap, Eurymedit. – 12, 19.  
*Centaurea cuneifolia* Sibth. & Sm. subsp. *cuneifolia* – H bienn, Balkan endemic – 18, 20, 37, 39, 51.  
*C. diffusa* Lam. – H bienn, S-Europ.-S-Siber. – 10, 12, 16.  
*C. grisebachii* (Nyman) Heldr. subsp. *grisebachii* – H bienn, Balkan endemic – 15.  
*C. jacea* L. – H scap, Eurasiat. – 9.  
*Chamomilla recutita* (L.) Rauschert – T scap, Subcosmop. – 10.  
*Chondrilla juncea* L. – H scap, S-Europ.-S-Siber. – 10.  
*Cichorium intybus* L. – H scap, Paleotemp. – 8-10, 12, 15, 25.  
*Cirsium vulgare* (Savi) Ten. – H bienn, Paleotemp. – 8, 12.  
*Conyza bonariensis* (L.) Cronq. – T scap, xenophyte (Tropical America) – 10, 12, 28.  
*C. canadensis* (L.) Cronq. – T scap, xenophyte (N America) – 10.  
*Dittrichia graveolens* (L.) W. Greuter – T scap, Eurymedit.-Turan. – 10, 12, .  
*D. viscosa* (L.) W. Greuter subsp. *viscosa* – H scap, Eurymedit. – 3, 10, 12, 25.  
*Doronicum orientale* Hoffm. – G rhiz, Oroph. SE-Europ. – 24, 26, 31, 44.  
*Echinops sphaerocephalus* L. – H scap, Paleotemp. – 10.  
*Hieracium hoppeanum* Schultes – H ros, NE-Medit.-Mont. – 1, 27, 29, 51.  
*H. murorum* group – H scap – 19, 34, 35, 43.  
*Hypochoeris cretensis* (L.) Bory & Chaub. – H scap, NE-Medit.-Mont. – 10.  
*Lapsana communis* L. – T scap, Paleotemp. – 5, 21, 23, 24, 26, 30, 32, 34, 35, 38, 40, 43, 47-50, 52.  
*Leontodon hispidus* L. – H ros, Europ.-Caucas. – 9.  
*L. taraxacoides* (Vill.) Mérat – H scap, Eurymedit. – 10.  
*Mycelis muralis* (L.) Dumort. – H scap, Europ.-Caucas. – 5, 18, 19, 23, 31, 40, 43, 47, 49, 50, 52.  
*Picnomon acarna* (L.) Cass. – H scap, Stenomedit. – 12.  
*Sonchus asper* (L.) Hill – T scap, Eurasiat. – 10.  
*S. oleraceus* L. – T scap, Eurasiat. – 10.  
*Tanacetum corymbosum* (L.) Schultz Bip. – H scap, Eurymedit. – 19.  
*Tragopogon dubius* Scop. – H bienn, S-Europ.-S-Siber. – 10.  
*T. pratensis* L. – H scap, Eurosib. – 9.  
*Tussilago farfara* L. – G rhiz, Paleotemp. – 44.



## CONVOLVULACEAE

- Calystegia sepium* (L.) R. Br. subsp. *sepium* – H scand, Paleotemp. – 28.  
*C. silvatica* (Kit.) Griseb. – H scand, SE-Europ. – 17, 20, 21, 24, 32, 43, 47, 50, 52.  
*Convolvulus arvensis* L. – G rhiz, Paleotemp. – 2, 47.

## CORNACEAE

- Cornus mas* L. – P caesp, S-Europ.-S-Siber. – 8, 22, 28, 38, 43.

## CRASSULACEAE

- Sedum cepaea* L. – T scap, Eurymedit.-Subatl. – 18, 21, 31-33, 48, 50, 52.  
*S. litoreum* Guss. – T scap, E-Stenomedit. – 10.  
*Umbilicus rupestris* (Salisb.) Dandy – G bulb, Stenomedit.-Atl. – 10.

## CRUCIFERAE

- Alyssum minus* (L.) Rothm. – T scap, Eurymedit.-Turan. – 15.  
*A. umbellatum* Desv. – T caesp, E-Stenomedit. – 10.  
*Berteroa mutabilis* (Vent.) DC. – H scap, NE-Medit.-Mont. – 30.  
*B. orbiculata* DC. – H scap, Balkan endemic – 39, 19, 10.  
*Capsella bursa-pastoris* (L.) Medicus – H bienn, Cosmopol. – 39.  
*Cardamine bulbifera* (L.) Crantz – G rhiz, C-Europ. – 47, 49.  
*C. graeca* L. – T scap, N-Medit.-Mont. – 30, 44.  
*Lepidium draba* L. – G rhiz, Eurymedit.-Turan. – 10.  
*Matthiola incana* (L.) R. Br. – Ch suffr, Stenomedit. – 10.  
*Rorripa sylvestris* (L.) Besser – H scap, Eurasiat. – 7.  
*R. thracica* (Griseb.) Fritsch – H scap, Balkan endemic – 17.

## DIPSACACEAE

- Cephalaria flava* (Sibth. & Sm.) Szabó subsp. *flava* – H scap, Balkan endemic – 19.  
*Knautia integrifolia* (L.) Bertol. – T scap, Eurymedit. – 9, 19.

## ERICACEAE

- Arbutus unedo* L. – P caesp, Stenomedit. – 2, 10, 14, 15, 19, 25.  
*Erica arborea* L. – P caesp, Stenomedit. – 1, 7, 10, 15, 17, 18, 22, 25, 27, 29, 38, 39, 51.  
*E. manipuliflora* Salisb. – Ch suffr, E-Stenomedit. – 11.

## EUPHORBIACEAE

- Euphorbia amygdaloides* L. – Ch suffr, Europ.-Caucas. – 2, 5, 13, 19, 21, 23, 24, 26, 31-35, 40, 43, 44-47, 49, 50, 52.  
*E. cyparissias* L. – H scap, C-Europ. – 15.  
*E. helioscopia* L. – T scap, Cosmopol. – 10, 12, 15.  
*E. oblongata* Griseb. – Ch suffr, NE-Stenomedit. – 18, 19.  
*E. peplus* L. – T scap, Eurosib. – 10.  
*E. platyphyllos* L. – T scap, Eurymedit. – 6, 29, 37, 49.  
*E. segueriana* Necker – H scap, Eurymedit. – 8, 10.

*E. serrulata* Thuill – T scap, Europ.-Caucas – 22.

*Mercurialis perennis* L. – G rhiz, Europ.-Caucas. – 10, 21.

#### FAGACEAE

*Castanea sativa* Miller – P scap, SE-Europ. – 2, 3, 5, 7, 19-24, 26, 31-34, 38-41, 43, 47, 49, 50, 52.

*Fagus sylvatica* L. – P scap, C-Europ. – 5, 17-20, 24, 32-35, 37, 40, 41, 43-47, 49, 52.

*Quercus coccifera* L. – P caesp, W-Stenomedit. – 5, 10, 15, 25.

*Q. frainetto* Ten. – P scap, SE-Europ. – 1, 2, 5, 6, 13, 17, 18, 21-29, 32, 40, 41, 49, 50-52.

*Q. ilex* L. – P scap, Stenomedit. – 3, 4, 10, 15, 19, 23, 25, 51.

*Q. petraea* Liebl. subsp. *medwediewii* (A. Camus) Menitsky (Syn. *Q. dalechampii*) – P scap, SE-Europ. – 6, 13, 21-24, 26, 30-32, 48, 50, 52.

*Q. pubescens* Willd. – P scap, SE-Europ. – 19, 25, 38.

#### FUMARIACEAE

*Fumaria kralikii* Jordan – T scap, S-Europ.-S-Siber. – 10.

#### GENTIANACEAE

*Centaureum erythraea* Rafn. subsp. *erythraea* – H bienn, Paleotemp. – 27.

#### GERANIACEAE

*Erodium cicutarium* (L.) L' Hér. – T scap, Subcosmop. – 10.

*Geranium lucidum* L. – T scap, Eurymedit. – 6, 13, 48.

*G. molle* L. – T scap, Eurasiat. – 10.

*G. purpureum* Vill. – T scap, Eurymedit. – 10.

*G. robertianum* L. – T scap, Subcosmop. – 13, 18, 19, 33, 43, 45, 46.

*G. rotundifolium* L. – T scap, Paleotemp. – 10, 28.

*G. sanguineum* L. – H scap, Europ.-Caucas. – 14.

#### GUTTIFERAE

*Hypericum empetrifolium* Willd. – NP, E-Stenomedit. – 7, 8.

*H. montbretii* Spach – H scap, E-Eurymedit. – 1, 3, 4, 6, 10, 13, 18, 19, 21, 23, 27, 29-31, 46, 50, 52.

*H. olympicum* L. – H scap, NE-Stenomedit. – 15.

*H. perforatum* L. – H scap, Paleotemp. – 1, 10, 13, 15, 17-20, 28, 37-39, 48.

*H. tetrapterum* Fries – H scap, Paleotemp. – 22.

#### JUNGLANDACEAE

*Juglans regia* L. – P scap, xenophyte (Asia) – 16, 20, 37, 39.

#### LABIATAE

*Acinosa alpinus* (L.) Moench subsp. *nomismophyllus* (Rech. fil.) Leblebeci – Ch frut, Greek endemic – 17, 19, 20.

*Ajuga laxmannii* (L.) Bentham – H scap, E & EC Europ. – 22, 24, 32, 34, 35, 40, 45, 47.

*A. reptans* L. – Ch rept, Europ.-Caucas. – 44.

- Ballota nigra* L. – H scap, Eurymedit. – 20, 51.  
*Calamintha grandiflora* (L.) Moench – H scap, Oroph. S-Europ. – 5, 18-24, 26, 31-35, 37, 40, 41, 43, 45-47, 49, 50, 52.  
*C. nepeta* (L.) Savi – H scap, Oroph. S-Europ. – 8, 28.  
*C. sylvatica* Bromf. – H scap, Europ.-Caucas. – 16, 19.  
*Clinopodium vulgare* L. subsp. *arundanum* (Boiss.) Nyman – H scap, Circumbor. – 1-6, 10, 12, 15, 17-19, 23, 26-27, 30-35, 40, 41, 43, 45, 48, 50-52.  
*Lamium amplexicaule* L. subsp. *amplexicaule* – T scap, Paleotemp. – 10.  
*L. garganicum* L. subsp. *garganicum* – H scap, NE-Stenomedit. – 44.  
*Lycopus europaeus* L. – H scap, Paleotemp. – 28, 42.  
*Marrubium peregrinum* L. – H scap, SE-Europ. – 3.  
*Melissa officinalis* L. subsp. *altissima* (Sibth. & Sm.) Arcangeli – H scap, Eurymedit. – 16, 19, 32, 33, 39, 43, 47, 52.  
*Melittis melissophyllum* L. – H scap, C-Europ. – 17, 31.  
*Mentha aquatica* L. – H scap, Paleotemp. – 28.  
*M. longifolia* (L.) Hudson – H scap, Paleotemp. – 7, 8, 28, 32, 38, 46.  
*M. spicata* L. – H scap, Stenomedit. – 19, 39.  
*M. x villosa-nervata* Opiz – H scap, Stenomedit. – 10.  
*Micromeria juliana* (L.) Benth. ex Reichenb. – Ch suffr, Stenomedit. – 20.  
*Origanum vulgare* L. subsp. *hirtum* (Link) Ietswaart – H scap, SE-Stenomedit. – 2-6, 12, 15, 19, 21, 25, 27, 30, 43, 50, 52.  
*O. vulgare* L. subsp. *viridulum* (Martrin-Donos) Nyman – H scap, Eurasiat. – 44.  
*O. vulgare* L. subsp. *vulgare* – H scap, Eurasiat. – 44.  
*Phlomis samia* L. – H scap, NE-Stenomedit. – 17.  
*Prunella laciniata* (L.) L. – H scap, Eurymedit. – 38.  
*P. vulgaris* L. – H scap, Circumbor. – 26, 33, 38, 43, 50, 51.  
*Scutellaria albida* L. subsp. *perhispida* (Bornm.) Bothmer – H scap, Eurasiat. – 1, 6, 10, 15, 27, 30,  
*S. altissima* L. – H scap, SE-Europ. – 5, 21, 23, 31-33, 47, 50, 52.  
*Stachys angustifolia* Bieb. – H scap, Eurosib. – 15.  
*S. germanica* L. – H scap, Eurymedit. – 15, 38.  
*Teucrium chamaedrys* L. – Ch suffr, Eurymedit. – 1, 10, 13, 19, 25, 27, 48.  
*T. polium* L. – Ch suffr, Stenomedit. – 20.  
*Thymus sibthorpii* Benth. – Ch rept, NE-Stenomedit. – 1, 6, 10, 13, 15, 18, 20, 25, 27-30, 37, 39.

## LEGUMINOSAE

- Adenocarpus complicatus* (L.) Gay subsp. *complicatus* – Ch suffr, Stenomedit. – 38, 39.  
*Anthyllis hermanniae* L. – Ch frut, NE-Steno-Medit. – 3, 4.  
*Astragalus glycyphyllos* L. – Ch rept, S-Europ.-S-Siber. – 1, 23, 34, 35, 47.  
*Calicotome villosa* (Poiret) Link – P caesp, Stenomedit. – 10, 15.  
*Cercis siliquastrum* L. – P scap, S-Europ.-S-Siber. – 8, 10, 19.  
*Chamaecytisus hirsutus* (L.) Link – Ch suffr, Eurosib. – 2, 24, 26, 38, 48, 51.  
*Coronilla emerus* L. subsp. *emeroides* (Boiss. & Spruner) Hayek – NP, C-Europ. – 5, 8, 10, 23, 25, 28.

- Dorycnium hirsutum* (L.) Ser. – Ch suffr, Eurymedit. – 19, 25, 38, 39.  
*D. pentaphyllum* Scop. subsp. *herbaceum* (Vill.) Rouy – H scap, Europ.-Caucas. – 19, 20, 27, 30, 39.  
*Genista carinalis* Griseb. – NP, NE-Stenomedit. – 1, 13, 15, 29.  
*G. tinctoria* L. – Ch suffr, Eurasiat. – 2, 34, 35.  
*Lathyrus aphaca* L. – T scap, Eurymedit. – 30.  
*L. laxiflorus* (Desf.) O. Kuntze – H scap, S-Europ.-S-Siber. – 5, 6, 13, 22, 23, 26, 34, 35, 38, 40, 41, 43-45, 47-50, 52.  
*L. niger* (L.) Bernh. subsp. *niger* – G rhiz, Europ.-Caucas. – 5, 22-24, 31, 32, 34, 35, 40, 45, 47, 51.  
*L. venetus* (Miller) Wohlf – G rhiz, S-Europ.-S-Siber. – 22, 32, 41, 50, 52.  
*Lotus corniculatus* L. – H scap, Paleotemp. – 16, 19.  
*L. tenuis* Waldst. & Kit. ex Willd. – H scap, Paleotemp. – 10.  
*Medicago minima* (L.) Bartal. – T scap, Eurymedit. – 3, 4, 28.  
*Psoralea bituminosa* L. – H scap, Eurymedit. – 3.  
*Spartium junceum* L. – P caesp, Eurymedit. – 3, 4, 12, 19.  
*Trifolium alpestre* L. – H scap, Europ.-Caucas. – 19.  
*T. angustifolium* L. – T scap, Eurymedit. – 1, 10, 12, 15, 16, 25, 38.  
*T. arvense* L. – T scap, Paleotemp. – 1, 10, 12, 15, 16, 27, 29.  
*T. campestre* Schreber – T scap, Paleotemp. – 1, 6, 13, 17, 27.  
*T. cherleri* L. – T scap, Eurymedit. – 10.  
*T. globosum* L. – T scap, E-Stenomedit. – 1, 27, 29.  
*T. medium* L. – G rhiz, Europ.-W-Asiat. – 40.  
*T. ochroleucon* Hudson – H caesp, S. Europ.-S-Siber. – 18, 27, 32-34, 38, 50-52.  
*T. pignanii* Fauché & Chaub. – G rhiz, Balkan endemic – 30.  
*T. pratense* L. – Ch pulv, Eurosib. – 26.  
*T. repens* L. – Ch rept, Paleotemp. – 18, 28.  
*T. uniflorum* L. – H caesp, Stenomedit. – 10.  
*Vicia barbazitae* Ten. & Guss. – T scap, NE-Stenomedit. – 29, 30, 48.  
*V. cracca* L. subsp. *stenophylla* (Velen.) C. P. Preston – H scap, Eurasiat. – 26.  
*V. hirsuta* (L.) S. F. Gray – T scap, Paleotemp. – 5, 10, 21-24, 32, 35, 47.  
*V. sativa* L. subsp. *nigra* (L.) Ehrh. – T scap, Eurymedit.-Turan. – 14.  
*V. villosa* Roth – T scap, Eurymedit. – 19.

#### LINACEAE

- Linum elegans* Spruner ex Boiss. – H scap, Balkan endemic – 16.  
*L. trigynum* L. – T scap, Eurymedit. – 25.

#### LORANTHACEAE

- Viscum album* L. – P ep, Eurasiat – 49.

#### LYTHRACEAE

- Lythrum salicaria* L. – H scap, Subcosmop. – 8, 28.

*MALVACEAE*

- Malva moschata* L. – H scap, Eurymedit. – 9.  
*M. sylvestris* L. – H scap, Eurosib. – 10, 12.

*MORACEAE*

- Ficus carica* L. – P scap, Eurymedit.-Turan. – 8, 10, 14.  
*Morus alba* L. – P scap, xenophyte (Asia) – 7.

*OLEACEAE*

- Fraxinus ornus* L. – P scap, S. Europ.-S-Siber. – 1-3, 5, 6, 13, 15, 22, 23, 29, 31, 33, 41, 43, 47, 49, 52.  
*Jasminum fruticans* L. – P caesp, E-Stenomedit. – 8.  
*Olea europaea* L. var. *europaea* – P scap, Stenomedit. – 10.  
*O. europaea* L. var. *sylvestris* Brot. – Ch pulv, Steno-Medit – 10.  
*Phillyrea latifolia* L. – P caesp, Stenomedit. – 3, 4, 7, 10.

*ONAGRACEAE*

- Epilobium roseum* Schreber – H scap, Eurasiat. – 18.  
*E. tetragonum* L. – H scap, Paleotemp. – 16.

*PAPAVERACEAE*

- Papaver rhoeas* L. – T scap, E-Medit.-Mont. – 10.

*PHYTOLACCACEAE*

- Phytolacca americana* L. – G rhiz, xenophyte (N America) – 10, 38.

*PLANTAGINACEAE*

- Plantago coronopus* L. – H ros, Eurymedit. – 10.  
*P. lanceolata* L. – H ros, Eurasiat. – 10, 16.  
*P. major* L. – H ros, Eurasiat. – 21, 38.

*PLATANACEAE*

- Platanus orientalis* L. – P scap, SE-Europ. – 46, 8, 7, 28, 39, 19, 18.

*PLUMBAGINACEAE*

- Armeria* cf. *canescens* (Host.) Boiss. – H ros, Oroph. SE-Europ. – 19.  
*Plumbago europaea* L. – Ch frut, Stenomedit. – 10.

*POLYGONACEAE*

- Polygonum arenarium* Waldst. & Kit – T rept, SE-Europ. – 10.  
*P. aviculare* L. – T rept, Cosmopol. – 12.  
*Persicaria lapathifolia* (L.) S. F. Gray – T scap, Paleotemp. – 7, 42.  
*Rumex acetosella* L. – H scap, Subcosmop. – 20.  
*R. crispus* L. – H scap, Subcosmop. – 8.

PORTULACACEAE

*Portulaca oleracea* L. – T scap, Subcosmop. – 10.

PRIMULACEAE

*Cyclamen hederifolium* Aiton – G bulb, N-Stenomedit. – 10, 18, 19, 44, 52.

*Lysimachia punctata* L. – H scap, SE-Europ. – 18, 20.

*L. vulgaris* L. – H scap, Eurasiat. – 5, 18, 20, 22, 30, 40, 41, 43, 47, 49.

RANUNCULACEAE

*Clematis flammula* L. – P lian, Eurymedit. – 10, 20.

*C. vitalba* L. – P lian, Europ.-Caucas. – 7, 8, 15, 19, 47.

*C. viticella* L. – P lian, S-Europ.-S-Siber. – 19.

*Helleborus odoratus* Waldst. & Kit. subsp. *cyclophyllus* (A. Braun) Strid – G rhiz, Balkan endemic – 5, 19, 21-24, 30, 33-35, 40, 43, 45, 47, 50.

*Ranunculus neapolitanus* Ten. – H scap, NE-Medit.-Mont. – 10.

*R. rumelicus* Griseb. – H scap, E-Stenomedit. – 14, 51.

*Thalictrum aquilegifolium* L. – H scap, Eurosib. – 21.

RESEDACEAE

*Reseda lutea* L. – H scap, Europ. – 15.

RHAMNACEAE

*Paliurus spina-christi* Miller – P caesp, SE-Europ. – 8, 10, 14, 28.

ROSACEAE

*Agrimonia eupatoria* L. – H scap, Subcosmop. – 23, 30.

*Aremonia agrimonioides* (L.) DC. – H ros, NE-Stenomedit. – 22-24, 26, 31-33, 40, 41, 43-47, 49, 50, 52.

*Crataegus monogyna* Jacq. – P caesp, C-Europ. – 5, 6, 8, 10, 13, 19, 27-29, 48, 51.

*Fragaria vesca* L. – Ch rept, Eurosib. – 44.

*Geum urbanum* L. – H scap, Circumbor. – 46.

*Malus sylvestris* Miller – P scap, C-Europ. – 18.

*Potentilla micrantha* Ramond ex DC. – H ros, Eurymedit. – 5, 6, 13, 30, 18, 44, 48.

*P. recta* L. s. str. sensu Hayek – H scap, S-Europ.-S-Siber. – 44.

*P. reptans* L. – H ros, Paleotemp. – 7, 28.

*Prunus spinosa* L. – P caesp, Europ.-Caucas. – 7, 20, 23.

*P. webbii* (Spach) Vierh. – P caesp, E-Stenomedit. – 10.

*Pyrus amygdaliformis* Vill. – P caesp, Stenomedit. – 17.

*Rosa arvensis* Hudson – NP, S-Stenomedit. – 5, 31, 40, 41.

*R. canina* L. – NP, Paleotemp. – 10, 17, 38.

*Rubus caesius* L. – NP, Eurasiat. – 8.

*R. canescens* DC. – NP, N-Eurymedit. – 2, 5, 14, 17, 23, 24, 26, 40, 46, 47, 49, 50, 52.

*R. hirtus* Waldst. & Kit. – NP, Europ. (W, C & SE) – 13, 29, 30, 51.

*R. ulmifolius* Schott – NP, Eurymedit. – 10, 12, 15, 19, 20, 37, 38.

*Sanguisorba minor* subsp. *minor* Scop. – H scap, Paleotemp. – 10, 19.

- Sorbus domestica* L. – P scap, Eurymedit. – 5, 22-24, 31, 41, 47, 49, 51, 52.  
*S. torminalis* (L.) Crantz – P scap, Paleotemp. – 5, 22-24, 26, 31-35, 38, 41, 43, 44, 47, 49, 50, 52.

#### RUBIACEAE

- Cruciata laevipes* Opiz. – H scap, Eurasiat. – 44.  
*Galium aparine* L. – T scap, Eurasiat. – 8, 10.  
*G. mollugo* group – H scap – 10, 17, 18, 38.  
*G. laconicum* Boiss. & Heldr. – H scap, NE Stenomedit. – 1, 2, 5, 14, 21, 26, 27, 29, 32-35, 41, 43, 45, 49, 51.  
*G. odoratum* (L.) Scop. – G rhiz, Europ.-Caucas. – 22, 33, 43.  
*G. verum* L. – T scap, Europ.-Caucas. – 38.  
*Rubia peregrina* L. – P lian, Stenomedit. – 10.

#### SALICACEAE

- Populus nigra* L. subsp. *nigra* – P scap, Paleotemp. – 7, 28.  
*Salix alba* L. – P scap, Paleotemp. – 7, 28.

#### SANTALACEAE

- Osyris alba* L. – NP, Eurymedit. – 10.  
*Thesium divaricatum* Jan ex Mert. & W. D. J. Koch – G rad, Eurymedit. – 1, 29.

#### SCHROPHULARIACEAE

- Digitalis lanata* Ehrh. – H scap, SE-Europ. – 2, 15, 18, 19, 38, 39, 51.  
*D. laevigata* Waldst. & Kit. – H scap, Balkan endemic – 22.  
*D. viridiflora* Lindley – H scap, Balkan endemic – 19-21, 30-33, 43, 46, 50, 52.  
*Parentucellia latifolia* (L.) Caruel – T scap, Eurymedit. – 10.  
*Scrophularia nodosa* L. – H scap, Circumbor. – 3, 4, 22, 24, 34, 35, 45, 47.  
*Verbascum banaticum* Schrader – H scap, SE-Europ. – 15, 18, 19, 38, 39.  
*V. densiflorum* Bertol. – H bienn, N-Eurymedit. – 38.  
*V. sinuatum* L. – H bienn, Eurymedit. – 15.  
*V. nigrum* L. – H scap, S-Europ.-S-Siber. – 5, 21-24, 30-32, 40, 43, 46, 47, 49, 50.  
*V. undulatum* Lam. – H scap, Balkan endemic – 3, 4.  
*Veronica chamaedrys* L. – H scap, S-Europ.-S-Siber. – 5, 6, 13, 15, 21-24, 26, 27, 29-35, 38, 41, 45, 47-52.  
*V. officinalis* L. – Ch rept, Eurasiat. – 40, 41.

#### SOLANACEAE

- Atropa bella-donna* L. – H scap, Oroph. S-Europ. – 23.

#### THYMELEACEAE

- Daphne laureola* L. – P caesp, Europ.-Subatl. – 5, 18, 19, 22, 23, 33, 35, 44, 45, 49.

#### TILIACEAE

- Tilia platyphyllos* Scop. – P scap, Europ.-Caucas. – 21, 32.  
*T. tomentosa* Moench – P scap, SE-Europ.-W Asiat. – 21, 32, 52.

ULMACEAE

*Ulmus glabra* Hudson – P scap, Europ.-Caucas. – 46.

*U. minor* Miller subsp. *canescens* (Melville) Browicz & Zielinsky – P caesp, Europ.-Caucas. – 28.

UMBELLIFERAE

*Anthriscus sylvestris* (L.) Hoffm – H scap, Paleotemp. – 46.

*Caucalis platycarpus* L. – T scap, Eurymedit.-Turan. – 14.

*Crithmum maritimum* L. – Ch suffr, Eurymedit. – 10.

*Daucus carota* L. subsp. *carota* – H bienn, Paleotemp. – 7, 9, 10, 12, 28.

*D. guttatus* Sibth. & Sm – T scap, E-Stenomedit. – 3, 4.

*Eryngium campestre* L. – H scap, Eurymedit. – 10.

*Ferulago sylvatica* (Besser.) Reichenb. subsp. *sylvatica* – H scap, S-Europ.-S-Siber. – 19.

*Oenanthe pimpinelloides* L. – H scap, Eurymedit.-Subatl. – 9.

*Physospermum cornubiense* (L.) DC. – H scap, Eurymedit.-Subatl. – 5, 7, 22-24, 26, 31, 34, 35, 40, 41, 45, 49-51.

*Sanicula europaea* L. – H scap, Paleotemp. – 19, 31, 38, 40, 41.

*Torilis arvensis* (Hudson) Link subsp. *purpurea* (Ten.) Hayek – T scap, Subcosmop. – 17.

*T. japonica* (Houtt.) DC. – T scap, Paleotrop. – 39.

URTICACEAE

*Parietaria officinalis* L. – H scap, Europ.-Caucas. – 28.

*Urtica dioica* L. – H scap, Subcosmop. – 8.

VALERIANACEAE

*Valerianella carinata* Loisel. – T scap, Eurymedit. – 8.

VERBENACEAE

*Verbena officinalis* L. – H scap, Paleotemp. – 28, 38.

*Vitex agnus-castus* L. – P caesp, Eurymedit.-Turan. – 8, 7, 28.

VIOLACEAE

*Viola reichenbachiana* Jordan ex Boreau – H scap, Eurosib. – 19.

*V. riviniana* Reichenb. – H scap, Europ. – 44.

VITACEAE

*Vitis vinifera* L. – P lian, Eurasiat. – 8.

ZYGOPHYLLACEAE

*Tribulus terrestris* L. – T rept, Cosmopol. – 10.

MONOCOTYLEDONAE

AMARILLIDACEAE

*Sternbergia lutea* (L.) Ker-Gawler ex Sprengel subsp. *lutea* – G bulb, Medit.-Mont – 4.



## ARACEAE

*Arum italicum* Miller – G rhiz, Stenomedit. – 28.

*Dracunculus vulgaris* Schott – G rhiz, Stenomedit. – 10.

## CYPERACEAE

*Carex caryophyllea* Latourr. – H scap, Eurasiat. – 6, 26, 30, 41.

*C. flacca* Schreber – G rhiz, Europ. – 38, 44.

## DIOSCOREACEAE

*Tamus communis* L. – G rad, Eurymedit. – 7, 8, 10, 28.

## GRAMINEAE

*Agrostis stolonifera* L. – Ch rept, Circumbor. – 6, 13, 30, 33, 43, 48, 49, 51, 52.

*Aira caryophyllea* L. – T scap, Subtrop. – 10.

*Anthoxanthum odoratum* L. – H caesp, Eurasiat. – 1, 6, 13, 26, 27, 29, 30, 32, 33, 43, 48, 51.

*Avena sterilis* L. – T scap, Eurymedit. – 3.

*Brachypodium sylvaticum* (Hudson) P. Beauv. subsp. *sylvaticum* – H caesp, Paleotemp. – 5-7, 13, 19, 21, 23, 24, 26, 28, 30-35, 40, 41, 43, 48-52.

*Briza maxima* L. – T scap, Subtrop. – 10.

*B. media* L. – H caesp, Eurosib. – 3, 4, 27, 29.

*Bromus erectus* Hudson – H caesp, Paleotemp. – 38.

*B. hordeaceus* L. subsp. *hordeaceus* – T scap, Subcosmop. – 15.

*B. squarrosus* L. – T scap, Paleotemp. – 15, 20.

*Chrysopogon gryllus* (L.) Trin. – H caesp, S-Europ.-S-Siber. – 1, 26.

*Cynodon dactylon* (L.) Pers. – H rhiz, Cosmopol. – 9, 10, 28.

*Cynosurus echinatus* L. – T scap, Eurymedit. – 12, 27.

*Dactylis glomerata* L. – H caesp, Paleotemp. – 1-7, 10, 12, 13, 18-21, 23, 24, 26, 27-33, 38, 40, 41, 43, 48-50, 52.

*Elymus panormitanus* (Parl.) Tzvelev – H caesp, Medit.-Mont. – 27, 50.

*Eragrostis minor* Host – T scap, Subcosmop. – 14.

*Festuca heterophylla* Lam. – H caesp, Europ.-Caucas. – 21, 26, 30-33, 35, 40, 41, 43, 45, 49-52.

*Holcus lanatus* L. – H caesp, Circumbor. – 19, 28.

*Hordeum murinum* L. – T scap, Circumbor. – 3, 4, 9.

*Lagurus ovatus* L. – T scap, Eurymedit. – 10.

*Lolium rigidum* Gaudin – T scap, Subtrop. – 10.

*Melica ciliata* L. – H caesp, Eurymedit. – 10.

*M. uniflora* Retz. – H caesp, Paleotemp. – 21-24, 32-35, 38, 43, 45, 47, 50, 52.

*Milium effusum* L. – G rhiz, Circumbor. – 47.

*Phleum pratense* L. – H caesp, Circumbor. – 14.

*Phragmites australis* (Cav.) Trin. ex Steudel – G rhiz, Subcosmop. – 8, 7, 28.

*Piptatherum milliaceum* (L.) Cosson – H caesp, Stenomedit. – 10, 12.

*Poa annua* L. – T caesp, Cosmopol. – 38, 20.

*P. bulbosa* L. – H caesp, Paleotemp. – 52.

- P. nemoralis* L. – H caesp, Circumbor. – 5, 13, 21-24, 26, 30-35, 40, 41, 43, 45, 47-50, 52.  
*P. trivialis* L. subsp. *sylvicola* (Guss.) H. Lindb. fil. – H caesp, Eurasiat. – 8, 28.  
*Stipa bromoides* (L.) Dörfler – H caesp, Stenomedit. – 1, 15, 27, 29.  
*Trisetum flavescens* (L.) P. Beauv. – H caesp, Eurasiat. – 9.  
*Vulpia ciliata* Dumort. – T caesp, Eurymedit. – 10.

#### IRIDACEAE

- Crocus pulchellus* Herbert – G bulb, NE-Stenomedit. – 19.

#### JUNCACEAE

- Juncus acutus* L. – H caesp, Eurymedit. – 28.  
*Luzula forsteri* (Sm.) DC. – H caesp, Eurymedit. – 1, 5, 6, 13, 21-24, 26, 27, 29-35, 40, 41, 43, 45, 47-52.

#### LILIACEAE

- Allium guttatum* Steven – G bulb, S. Europ. – 10.  
*A. paniculatum* L. – G bulb, Paleotemp. – 5, 38.  
*A. sphaerocephalon* L. – G bulb, Paleotemp. – 3.  
*Asparagus acutifolius* L. – NP, Steno-Medit. – 5, 7, 8, 10, 15, 27.  
*A. officinalis* L. – G rhiz, Eurymedit. – 25.  
*Asphodelus aestivus* Brot. – G rhiz, Eurymedit. – 10.  
*Colchicum bivonae* Guss. – G bulb, NE-Stenomedit. – 17.  
*Lilium martagon* L. – G bulb, Eurasiat. – 19.  
*Muscari comosum* (L.) Miller – G bulb, Eurymedit. – 20, 38.  
*Polygonatum odoratum* (Miller) Druce – G rhiz, Circumbor. – 6, 22, 24, 32, 34, 35, 44, 45, 47.  
*Ruscus aculeatus* L. – Ch frut, Eurymedit. – 10, 23, 25, 32, 44, 47, 49, 50, 52.  
*R. hypoglossum* L. – Ch frut, Eurymedit. – 22, 33, 43, 45, 47.

#### ORCHIDACEAE

- Dactylorhiza saccifera* (Brongn.) Soó – G bulb, SE & C-Eurymedit. – 18.  
*Epipactis helleborine* (L.) Crantz – G rhiz, Paleotemp. – 19.  
*Himantoglossum hircinum* (L.) Sprengel – G bulb, Eurymedit.-Atl. – 18.  
*Limodorum abortivum* (L.) Schwartz – G rhiz, Eurymedit. – 20.  
*Neottia nidus-avis* (L.) L. C. M. Richard – G rhiz, Eurasiat. – 17, 40.  
*Platanthera bifolia* (L.) L. – G bulb, Paleotemp – 51.

#### TYPHACEAE

- Typha angustifolia* L. – G rhiz, Cosmopol. – 10.

## Conclusions

A total number of 404 vascular plant taxa (species, subspecies and varieties) belonging to 260 genera and 83 families were identified from Mount Stratonikon. Dicots are prevailing,

with 327 taxa, while Monocots comprise 63 taxa. Gymnosperms and Pteridophytes are represented each by 7 taxa. Among the taxa recorded 401 are spontaneously growing, while three (*Pinus pinaster*, *Cedrus atlantica* and *Pseudotsuga menziesii*) are planted in forestation areas.

Concerning the life form spectrum of the spontaneously growing taxa, Hemicryptophytes are prevailing (43.4% of the taxa), in accordance with the

Table 1. Life form spectrum of the spontaneously growing taxa of Mount Stratonikon.

<b>Life forms</b>	<b>No of taxa</b>	<b>%</b>
<b>Therophytes</b>		19.2
T scap	70	
T caesp	3	
T rept	4	
<b>Hemicryptophytes</b>		43.4
H scap	116	
H caesp	24	
H ros	14	
H rhiz	1	
H scand	2	
H bienn	17	
<b>Chamaephytes</b>		6.5
Ch frut	5	
Ch suffr	12	
Ch pulv	2	
Ch rept	7	
<b>Geophytes</b>		12.2
G bulb	15	
G rhiz	32	
G rad	2	
<b>Phanerophytes</b>		18.7
NP	14	
P scap	26	
P caesp	25	
P lian	9	
P ep	1	

Table 2. Chorological spectrum of the spontaneously growing taxa of Mount Stratonikon.

Chorological group	Number of taxa	%
<b>Greek Endemic</b>	1	0.2
<b>Balkan Endemic</b>	13	3.3
<b>Mediterranean</b>		34.8
Stenomediterranean (Stenomedit., N- Stenomedit., E- Stenomedit., S- Stenomedit., W- Stenomedit., NE- Stenomedit., SE- Stenomedit.)	60	
Eurymediterranean (Eurymedit., N- Eurymedit., E- Eurymedit., SE- & C- Eurymedit.)	70	
Mediterranean montane (Medit.-Mont., N- Medit.-Mont., E- Medit.-Mont., NE- Medit.- Mont.)	9	
<b>Eurasianic</b>	160	40.1
(Paleotemp., Paleosubtrop., Eurasiat., S-Europ.-S-Siber., Europ.- W-Asiat., Europ.-Caucas., Pontic, Europ., C-Europ., S-Europ., SE-Europ., W, C & SE-Europ., SE-Europ.-W-Asiat., E- & EC Europ.)		
<b>Atlantic</b>	7	1.8
(Europ. -Subatl., Stenomedit.-Atl., Eurymedit.-Subatl.)		
<b>Orophilous S-European</b>	5	1.3
(Oroph. S-Europ., Oroph. SE-Europ.)		
<b>Circumboreal</b>	30	7.5
(Circumbor., Eurosib.)		
<b>Multizonal</b>	37	9.3
(Eurymedit.-Turan., Subcosmop., Cosmopol., Paleotemp., Paleotrop., Subtrop.)		
<b>Xenophytes</b>	7	1.7

mesomediterranean character of the site. They are followed by Therophytes, comprising 19.2% of the taxa. The high percentage of Phanerophytes (18.7%) is related to the prevalence of forest habitats, especially *Quercus ilex* forests, which are characterized by a diverse woody flora. Geophytes comprise 12.2% of the spectrum, while Chamaephytes are minor components (6.5%) (Table 1).

Eurasian taxa represent 40.1% of the spontaneously growing taxa recorded (Table 2). Mediterranean taxa, i.e. Stenomediterranean (60 taxa), Eurymediterranean (70 taxa) and Mediterranean-Montane taxa (9 taxa), constitute in total 34.8% of the chorological spectrum. The circumboreal and multizonal taxa comprise 7.5% and 9.3% of the spectrum respectively.

Among the recorded taxa, seven are spontaneously growing xenophytes, five of them of American origin (*Amaranthus albus*, *A. deflexus*, *Conyza bonariensis*, *C. canadensis* and *Phytolacca americana*) and two Asiatic (*Morus alba*, *Juglans regia*).

The present study revealed another aspect of the biological importance of Mount Stratonikon. The to-date known ecological value of the site, and main reason for its inclusion in the NATURA 2000 network, resulted from the occurrence of one priority habitat of Annex I (i.e. *Tilio-Acerion* forests of slopes, screes and ravines – 9180) and seven animal species listed in Annex II of the Directive 92/43 EC (Dafis et al. 1996). Although it is the first systematic collecting effort in the area, the plant list presented here includes one Greek endemic, *Acinos alpinus* subsp. *nomismophyllus*, a rare taxon, found in a few areas of NE Greece. Furthermore, 13 Balkan endemics (3.3% of the taxa recorded) were found, among them some rather rare in Greece taxa, restricted in the N part of the country, i.e. *Rorripa thracica*, *Berteroa orbiculata*, *Cephalaria flava* subsp. *flava* and *Digitalis viridiflora*. Besides, one taxon (*Ruscus aculeatus*) is included in Annex V (Animal and plant species of community interest whose taking in the wild and exploitation may be subject to management measures) of the Directive 92/43/EEC. In an attempt to obtain a more clear view on the importance of the area, our efforts are continued aiming to reveal taxa with a European and/or global conservation interest.

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Addresses of the authors:

Regina Karousou, Effie Hanlidou, Panoraia Kokkini, Doukissa Koufou & Stella Kokkini

Laboratory Systematic Botany and Phytogeography, School of Biology, Aristotle University of Thessaloniki, 541 24 Thessaloniki, Greece – E-mail: karousou@bio.auth.gr; Fax: +302310998295).