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Flora and vegetation of Mt Likeo (Peloponnisos, Greece)

Abstract

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The current investigation presents 701 specific and infraspecific taxa of the vascular flora of Mt Likeo, SW Peloponnisos. From these, 543 are reported from the mountain for the first time, 41 are Greek and 23 Balkan endemics. For each taxon, local distribution and habitat types are presented. *Trifolium strictum* seems to be a first record for Peloponnisos. Some of the new records concern rare taxa in Greece, in Peloponnisos or regional endemics, which are, therefore, chorologically significant, such as *Arenaria guicciardii*, *Cota brachmannii*, *Thlaspi graecum*, *Alkanna methanaea*, *Campanula topaliana* subsp. *cordifolia*, *Sedum laconicum* subsp. *laconicum*, *Achillea grandifolia*, *Scrophularia scopolii*. The main vegetation types are also briefly described.

Key words: biodiversity, adventive plants, phytogeography.

Introduction

Mt Likeo or Diaforti is located in Peloponnisos and belongs to the homonymous unit according to the phytogeographical division in “Flora Hellenica” (Strid & Tan 1997). It is situated in the southwestern part of Peloponnisos between the Megalopolis basin and the town of Zaharo. It lies NNE of the Messinian peninsula and administratively belongs to the prefectures of Messenia, Arkadia and Ilia. Its name is correlated with ancient Greek history as it was regarded from the ancient arkades as the place of birth of Zeus and thus their holy mountain.

The highest peaks of Mt Likeo (Fig. 1), Diaforti (1420 m) and Profitis Ilias (1382 m) constitute the core mass of a more wide montane zone 1000-1200 m high. The peripheral zone is hilly, ending in Megalopolis basin in the east and close to the main road which connects Andritsena and Megalopolis in the north. In the west it is very close to Mt Minthi and the Temple of Epikourios Apollon. In the south it is demarcated from Mt Tetrazio by Derpounorachi ridge and river Neda.

Geologically, the investigated area consists of alpine formations of the geotectonic unit of Pindos (Foundoulis 1994). Platty to bedded limestones of upper Cretaceous cover more than half of the study area. Limestones are interrupted by longitudinal zones of the hornstone series and flysch. The axis of the latter zones has in general a N-S orientation (IGME

1973). The boundaries of the investigated area are defined by the coordinates 37°23'40" to 37°30'44"N and 21°54'00" to 22°02'52"E.

Climatic data are available from the nearby meteorological station of Andritsenia situated at 760 m. According to climatic diagram by Emberger (1955, 1959) and Sauvage (1963), the bioclimate of the area is humid with mild winter. The dry period, according to the ombrothermic diagram by Bagnouls & Gaussen (1957) lasts less than four months. The mean annual height of rain reaches approximately 1000 mm. Regional and local differences exist, depending on altitude and topography, i.e. the upper parts of the mountain receives considerable higher amounts of precipitation.

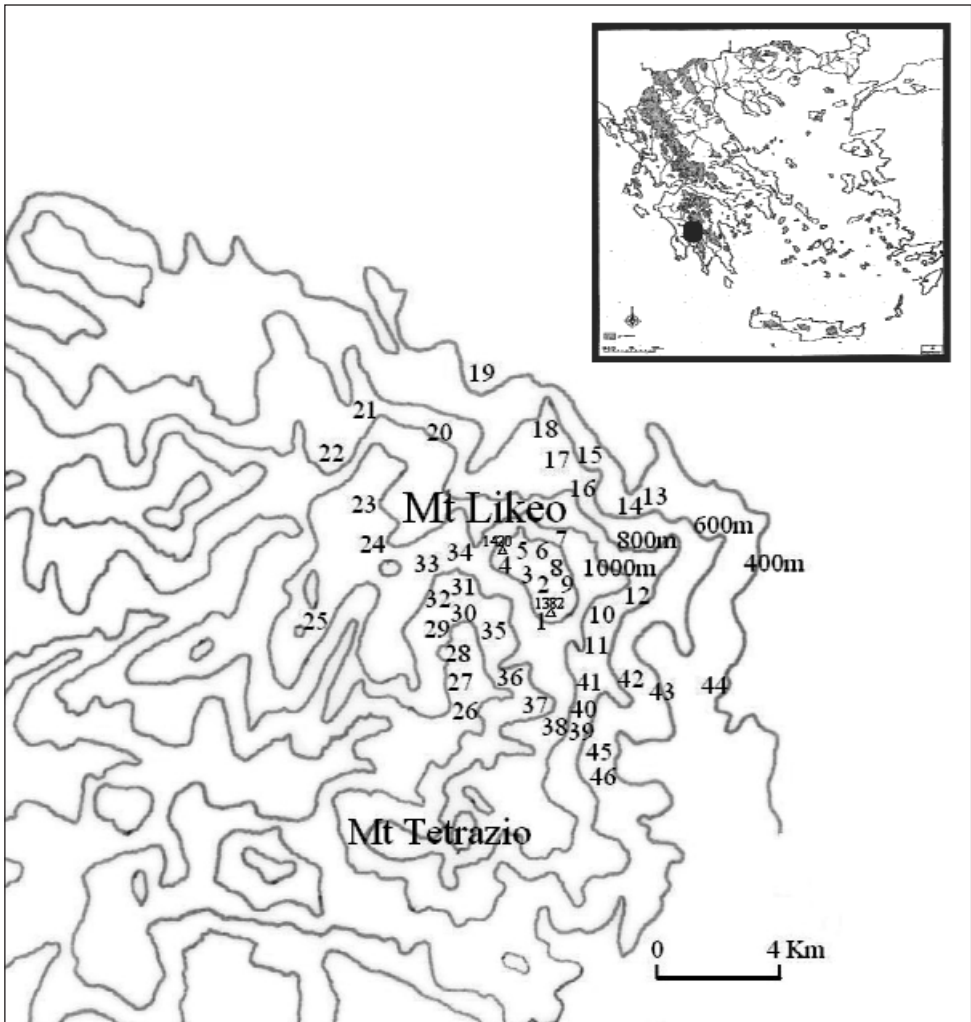


Fig. 1. Geographical position of Mt Likeo in Greece and a map of the investigated area.

The investigated area is not well explored floristically, as the main attention of the botanists was concentrated on the highest mountains of Peloponnisos such as Taigetos, Killini and Chelmos. Thus most of the records are old and many of them based on collections conducted near the famous Temple of Epikourios Apollon, one of the main tourist sights of the southwestern Peloponnisos. The first records from the area were published almost simultaneously by Chaubard & Bory (1838) and Friedrichsthal (1838). It seems that Friedrichsthal focused on the area close to Andritsena. Most of their records were summarized by Halácsy (1900-04, 1908, 1912) who included also a few records from Heldreich, Tuntas, Daenzer, Sibthorp, Lacaita and Sakellariades. Recently, Giannopoulos & al. (2011a, 2011b, 2012a, 2012b) reported several taxa mainly from the peripheral zone of the mountain between the road that connects Andritsena with the Temple of Epikourios Apollon. Only a few records have been found in other sources, mostly taxonomic revisions themselves unrelated to the flora of the mountain (Nardi 1991; Bigazzi & al. 1997). Altogether 158 taxa have been reported from the mountain until now.

Though the investigated area is mountainous and plains are practically absent offered the essential basic goods for the establishment of many villages since ancient times. The harsh, isolated and hardly accessible mountainous environment offered protection from invaders and acted as an ideal shelter for refuges mainly from the Messinian plain since ancient times. The foundation of villages was also favored by the existence of many springs dispersed in the whole area. These springs supply with water enough streams and the riparian forests of *Platanus orientalis* developed in or close to villages such as Agios Sostis, Ampeliona and Neda. However, the stony terrain had small productivity and the inhabitants were obliged to deforest large areas of the mountain even the upper parts near the highest summits. Fields with deeper soil were restricted to small dolines and upon hornstone substrate. We can assume that the whole area except extremely rocky areas was used as a low productivity farmland.

Nowadays, most of the villages look deserted in the winter and they are inhabited by a few residents mainly pensioners whose occupation is irrelevant to professional agriculture. As a consequence, the human interference is now in decline and the majority of the former terraced fields have been taken over by species of natural vegetation particularly by *Quercus coccifera* in areas with limestone and by *Quercus frainetto* in areas with flysch.

The present paper aims to register the flora and vegetation of a southwestern part of Peloponnisos, which might not be well known floristically in this geographical and historical region of the Mediterranean.

Material and methods

The study is based on collections and field observations made from 2005 to 2013. Collections were conducted in various localities and habitats of the mountain in all the seasons of the year in order to obtain a precise idea of the character of its flora. All specimens, almost 1600, are temporarily kept in my personal herbarium. Species identification and/or nomenclature were based mostly on Davis (1965-1985), Tutin & al. (1968, 1972, 1976, 1980, 1993), Greuter & al. (1984, 1986, 1989), Strid & Tan (1997, 2002) and Greuter & Raab-Straube (2008). Taxonomy and nomenclature of the family of *Gramineae* follows mostly the

suggestions of Prof. H. Scholz and Valdés & Scholz (2006). Families, genera, species and subspecies are listed within the major taxonomic groups in alphabetical order. In the following catalogue only spontaneous and subspontaneous taxa are recorded. Transliteration of localities is in accordance with “*Flora Hellenica*” (Strid & Tan 1997, 2002).

Localities (Fig. 1)

1. Summit Profitis Ilias, 1382 m, 16.10.2005, 4.3.2006, 17.4.2012, 18.5.2012, 16.6.2012.
2. c. 0.3 km W and N of summit Profitis Ilias, 1200-1300 m, 16.10.2005, 4.3.2006, 30.8.2011, 17.4.2012, 18.5.2012, 16.6.2012.
3. Between Diaforti and Profitis Ilias summit, 1250-1280 m, 18.5.2012, 16.6.2012.
4. Summit Diaforti, 1420 m, 16.10.2005, 1.5.2013.
5. Mpatavas, 1220-1300 m, 19.5.2012.
6. Between Mpatavas and Ancient Stadium, 1140-1200 m, 19.5.2012.
7. Between Kotili and Mpatavas, 850-1170 m.
8. Ancient Stadium, 1200 m, 4.3.2006, 30.8.2011, 17.4.2012.
9. Between Ano Karies and the Ancient Stadium, 1000-1200 m.
10. Ano Karies village, 960-1000 m, 30.8.2011, 17.4.2012, 16.6.2012.
11. Between Ano Karies and the crossroad to Kastanochori, 840-1000 m, 17.4.2012, 16.6.2012.
12. c. 1 km ENE of Ano Karies, 900-950 m, 16.6.2012.
13. c. 0.5 km E of Strogilo, 420-450 m.
14. Strogilo village, 420 m.
15. Between Thisoa and Strogilo, 400-550 m, 19.4.2012.
16. Kotili village, 830 m, 19.5.2012.
17. Between Zoodochos Pigi chapel and Kotili, 550-800 m, 19.5.2012.
18. Zoodochos Pigi chapel, 550 m, 19.5.2012.
19. Thisoa village, 500 m, 19.5.2012.
20. Rovia village, 760 m, 18.4.2012.
21. Between Andritsena and Rovia, 700-780 m, 19.5.2012.
22. Andritsena village, 760 m, 18.4.2012, 20.5.2012.
23. Between Andritsena and the crossroad to the Temple of Epikourios Apollon, 760-1130 m, 18.4.2012, 20.5.2012.
24. Agia Paraskevi chapel, 1120 m, 29.8.2011, 20.5.2012.
25. Temple of Epikourios Apollon, 1150 m.
26. Springs of Neda river, 660 m, 30.8.2011, 1.5.2013.
27. Petra village, 800 m, 17.4.2012.
28. Between Petra and the crossroad to Neda village, 720-750 m, 30.8.2011.
29. Ampeliona village, 800-850 m, 29.8.2011, 30.8.2011, 20.5.2012, 1.5.2013.
30. Between Agios Sostis and the crossroad to Ampeliona, 850 m, 29.8.2011, 30.8.2011, 17.4.2012, 18.4.2012, 20.5.2012.
31. Agios Sostis village, 850 m, 30.8.2011, 20.5.2012.
32. c. 0.5 km W and SW of Agios Sostis, 850-1050 m, 16.10.2005, 29.8.2011, 17.4.2012, 20.5.2012, 16.6.2012.

33. c. 1 km NNW of Agios Sostis, 930-1140 m, 29.8.2011, 18.4.2012, 20.5.2012.
34. c. 1.5 km W of the summit Diaforti, 1100-1140 m, 16.6.2012, 1.5.2013.
35. NNW of Neda village, close to the crossroad to Ampeliona and Petra, 750 m, 17.4.2012, 20.5.2012.
36. Neda village. 770-820 m, 16.10.2005, 30.8.2011, 17.4.2012, 20.5.2012. 16.6.2012, 1.5.2013.
37. Between Neda village and Derpounorachi, 820-1050 m, 16.10.2005, 4.3.2006, 29.8.2011, 30.8.2011, 20.5.2012, 16.6.2012.
38. Derpounorachi, 1050 m.
39. Between Likeo village and Derpounorachi, 820-1050 m, 30.8.2011, 18.5.2012, 16.6.2012.
40. Likeo village, 820 m, 17.4.2012.
41. Between Likeo village and the crossroad to Kastanochori, 770-840 m, 20.5.2012.
42. Between Kastanochori and the crossroad to Likeo village, 700-840 m, 20.5.2012.
43. Kastanochori, 700 m, 20.5.2012.
44. Between Kastanochori and Kato Karies village, 400-700 m, 20.5.2012.
45. SSE of Likeo village, 660-780 m, 17.4.2012, 18.5.2012, 16.6.2012.
46. c. 2.5 km SSE of Likeo village, 620-650 m, 17.4.2012, 18.5.2012, 16.6.2012.

Habitats

- a. *Quercus coccifera* dominated scrub often mixed with scattered deciduous species such as *Fraxinus ornus*, *Quercus pubescens*, *Crataegus monogyna*, *Acer* sp.pl., mainly limestone.
- b. Rocky places with sparse *Quercus coccifera* scrub, limestone.
- c. Stony meadows with scattered individuals of *Quercus coccifera* and *Juniperus oxycedrus* subsp. *oxycedrus*, limestone.
- d. Stony meadows with scattered individuals of *Quercus coccifera* and *Juniperus oxycedrus* subsp. *oxycedrus*, hornstone in contact with flysch.
- e. Dolines with low grass vegetation.
- f. *Pinus nigra* forest, mainly hornstone.
- g. *Quercus frainetto* forest and *Quercus frainetto*-*Castanea sativa* mixed forest, flysch.
- h. *Castanea sativa* forest, flysch.
- i. N-facing limestone cliffs.
- j. Open places with scattered individuals of *Pyrus spinosa* burnt in 2007.
- k. Stream with *Platanus orientalis*.
- l. Damp places in deciduous wood.
- m. Damp to wet places by springs or road margins, ditches and brooks.
- n. Open grazed places.
- o. Abandoned fields (mainly walnut orchards).
- p. Cultivated fields (mainly walnut orchards).
- q. Roadsides.
- r. Forest roadsides.
- s. Road cuttings.
- t. Street margins and disturbed places.
- u. Stone walls and dry stone walls.

Plant list

The following abbreviations are used: Bal. = E. Baliouisis; obs. = field observation; phot. = photograph; s.n. = without number; * = new record. Names of taxa not native to the investigated area are set in square brackets.

PTERIDOPHYTA

EQUISETACEAE

**Equisetum arvense* L. – 2s, Bal. 5890; 7r, Bal. 6701.

POLYPODIACEAE

**Anogramma leptophylla* (L.) Link – 36u, Bal. 7948.

**Asplenium ceterach* L. s.l. – 36u, Bal. obs.; 13b, Bal. s.n.; 23s, Bal. 6800; 12b, Bal. 7149.

Asplenium onopteris L. – 33s, Bal. 5583; 46g, Bal. 5854.

Asplenium trichomanes L. s.l. – (Halácsy 1904:471 based on a report of “A. trichomanoides” by Friedrichsthal 1838).

Dryopteris pallida (Bory) Maire & Petitm. subsp. *pallida* – 5a, Bal. 6767.

**Pteridium aquilinum* (L.) Kuhn subsp. *aquilinum* – 32g,h, Bal. 2193; 5a, Bal. s.n.; 7r, Bal. obs.; 42h, Bal. obs.

SELAGINELLACEAE

**Selaginella denticulata* (L.) Spring – 13b, Bal. 6094.

SPERMATOPHYTA

GYMNOSPERMAE

CUPRESSACEAE

Juniperus oxycedrus L. subsp. *oxycedrus* – 1c, Bal. s.n.; 2d, Bal. 5755; 42g, Bal. obs.

EPHEDRACEAE

**Ephedra foeminea* Forssk. – 13b, Bal. 6105.

PINACEAE

**Pinus nigra* J.F. Arnold subsp. *nigra* – 7f, Bal. 6713.

This taxon though planted covers a significant part of the upper part of the mountain especially the N-facing slopes on deep soils based on hornstones. Consequently it can be considered nowadays fully naturalized.

ANGIOSPERMAE

DICOTYLEDONES

ACANTHACEAE

Acanthus spinosus L. – 29o, Bal. phot.; 40t, Bal. obs.

ACERACEAE

**Acer monspessulanum* L. – 29a, *Bal.* 5657; 39a, *Bal.* 5746; 5a, *Bal.* 6741.

**Acer sempervirens* L. – 7a, *Bal.* 6687; 24a, *Bal.* 6831.

AMARANTHACEAE

*[*Amaranthus deflexus* L.] – 29t, *Bal.* 5671.

*[*Amaranthus hybridus* L.] – 29t, *Bal.* 5692; 31t, *Bal.* 5708; 36t, *Bal.* 5722.

*[*Amaranthus retroflexus* L.] – 29t, *Bal.* 5693.

ANACARDIACEAE

**Pistacia terebinthus* L. subsp. *terebinthus* – 13b, *Bal.* s.n.; 44a, *Bal.* 6952; 15a, *Bal.* obs.

APOCYNACEAE

**Vinca herbacea* Waldst. & Kit. – 1c, *Bal.* 6451; 6a, *Bal.* 6775; 12b, *Bal.* s.n.

*[*Vinca major* L. subsp. *major*] – 36o, *Bal.* obs.; 31o, *Bal.* obs.; 16t, *Bal.* obs.; 27t, *Bal.* obs.

ARALIACEAE

**Hedera helix* L. subsp. *helix* – 35k, *Bal.* 5973; 29h, *Bal.* s.n.

ARISTOLOCHIACEAE

Aristolochia elongata (Duch.) E. Nardi – (Nardi 1991).

BETULACEAE

Carpinus orientalis Mill. – (Friedrichsthal 1838).

**Ostrya carpinifolia* Scop. – 29h, *Bal.* 5641; 30g, *Bal.* 6865.

BORAGINACEAE

**Alkanna methanaea* Hausskn. – 33r, *Bal.* 6012; 34r, *Bal.* 7332; 29r, *Bal.* obs.

Anchusa hybrida Ten. – 29t, *Bal.* 5694; 40t, *Bal.* 5928; 36t, *Bal.* 5947.

Anchusella cretica (Mill.) Bigazzi, E.Nardi & Selvi – 46n, *Bal.* 5860; 8r, *Bal.* 5905. – The nomenclature of this species follows Bigazzi & al. (1997).

Anchusella variegata (L.) Bigazzi, E.Nardi & Selvi – 10b, *Bal.* 5913; 11q, *Bal.* 5925; 14q, *Bal.* 6044; 13r, *Bal.* 6067. – The nomenclature of this species follows Bigazzi & al. (1997).

**Cynoglossum columnae* Ten. – 11q, *Bal.* s.n.; 40t, *Bal.* 5930; 23q, *Bal.* s.n.; 1b, *Bal.* 6463.

**Echium italicum* subsp. *biebersteinii* (Lacaita) Greuter & Burdet – 37q, *Bal.* 5742; 29t, *Bal.* phot.; 46q, *Bal.* obs.; 16t, *Bal.* obs.; 40t, *Bal.* obs.; 31t, *Bal.* obs.

**Echium plantagineum* L. – 46n, *Bal.* 6368.

**Heliotropium europaeum* L. – 36t, *Bal.* 2201; 29t, *Bal.* 5679; 31t, *Bal.* 5704.

**Lithospermum incrassatum* Guss. – 1c, *Bal.* 5881; 3b, *Bal.* 7298.

Lithospermum purpureocaeruleum L. – (Friedrichsthal 1838).

**Myosotis ramosissima* Rochel subsp. *ramosissima* – 46q, *Bal.* 5846; 32g, *Bal.* 5988; 30q, *Bal.* 6007; 13b, *Bal.* 6092; 1c, *Bal.* 6465; 3e, *Bal.* 6523; 5a, *Bal.* 6764.

- **Myosotis sylvatica* subsp. *cyanea* (Boiss. & Heldr.) Vestergr. – 1c, *Bal.* 6462; 2d, *Bal.* 6534; 17j, *Bal.* 6657; 5a, *Bal.* 6765; 24a, *Bal.* 6823.
 **Neatostema apulum* (L.) I.M. Johnst. – 18j, *Bal.* 6618.
 **Onosma frutescens* Lam. – 10b, *Bal.* 5907; 13b, *Bal.* 6108; 23s, *Bal.* 6808; 12b, *Bal.* 7148.
Paraskevia cesatiana (Fenzl & Friedr.) W. Sauer & G. Sauer – (Friedrichsthal 1838, Halácsy 1908:76)
Symphytum bulbosum K.F. Schimp. – 36s, *Bal.* 5948; 35k, *Bal.* 5968; 5a, *Bal.* 6763; 32g, *Bal.* s.n.

CAMPANULACEAE

- Asyneuma limonifolium* (L.) Janch. subsp. *limonifolium* – 1c, *Bal.* 6481.
Campanula patula L. – (Chaubard & Bory 1838).
Campanula ramosissima Sm. – 36t, *Bal.* 5729; 46n, *Bal.* 6372; 44q, *Bal.* s.n.
 **Campanula spatulata* subsp. *spruneriana* (Hampe) Hayek – 2d, *Bal.* 6543; 7f, *Bal.* 6706; 32g, *Bal.* 6845.
Campanula stenosphon Boiss. & Heldr. – 45g, *Bal.* 6388; 32g, *Bal.* 6846; 34r, *Bal.* 7349.
 **Campanula topaliana* subsp. *cordifolia* Phitos – 21s, *Bal.* 6032; 23s, *Bal.* 6781.
Campanula versicolor Andrews – 5i, *Bal.* 6756; 12b, *Bal.* s.n.
Legousia falcata (Ten.) Janch. – {as *Specularia falcata* (Ten.) A. DC.; Halácsy 1912:60}.
 **Legousia hybrida* (L.) Delarbre – 2d, *Bal.* 6514; 24a, *Bal.* 6821; 12b, *Bal.* 7133.
 **Legousia speculum-veneris* (L.) Chaix – 21q, *Bal.* 6572; 5r, *Bal.* 6715; 5a, *Bal.* 6757; 23q, *Bal.* s.n.

CAPRIFOLIACEAE

- Lonicera etrusca* Santi – 1b, *Bal.* 6436.
 **Sambucus nigra* L. – 29r, *Bal.* 5627; 31t, *Bal.* obs.; 36t, *Bal.* obs.

CARYOPHYLLACEAE

- **Arenaria guicciardii* Heldr. ex Boiss. – 1c, *Bal.* 6472; 2r, *Bal.* 6517.
 **Arenaria leptoclados* (Rehb.) Guss. – 14t, *Bal.* 6050; 1c, *Bal.* 6473; 44a, *Bal.* 6953.
 **Cerastium brachypetalum* subsp. *roeseri* (Boiss. & Heldr.) Nyman – 46n, *Bal.* 5863; 2s, *Bal.* 5884; 10b, *Bal.* 5917; 11b, *Bal.* 5922; 23q, *Bal.* 6000; 13b, *Bal.* 6102; 1c, *Bal.* 6471; 2d, *Bal.* 6516; 5a, *Bal.* 6746; 24a, *Bal.* 6822; 12b, *Bal.* 7136.
Cerastium candidissimum Correns – 5i, *Bal.* s.n.; 3b, *Bal.* 7294.
 **Cerastium illyricum* subsp. *brachiatum* (Lonsing) Jalas – 46n, *Bal.* 5859; 30q, *Bal.* 6869; 13b, *Bal.* 6099; 3e, *Bal.* 6532.
 **Cerastium glomeratum* Thuill. – 46q, *Bal.* 5867; 30q, *Bal.* 6003; 14t, *Bal.* 6052.
Cerastium pedunculare Bory & Chaub. – 30q, *Bal.* 6004; 21q, *Bal.* 6025; 23q, *Bal.* 6787.
 **Dianthus diffusus* Sm. – 34r, *Bal.* 7317.
Dianthus viscidus Bory & Chaub. – (Giannopoulos & al. 2011b).
Minuartia globulosa (Labill.) Schinz & Thell. – 11q, *Bal.* 7122.
 **Minuartia hamata* (Hausskn. & Bornm.) Mattf. – 4b, *Bal.* 7971.
 **Minuartia hybrida* (Vill.) Schischk. – 13r, *Bal.* 6085; 2d, *Bal.* 6515; 31t, *Bal.* 6886; 44q, *Bal.* 6960.

- **Moenchia mantica* (L.) Bartl. – 44q, *Bal.* 6961.
 **Petrorhagia dubia* (Raf.) G. López & Romo – 30q, *Bal.* 6876.
Petrorhagia glumacea (Bory & Chaub.) P.W. Ball & Heywood – 37q, *Bal.* 2197; 46n, *Bal.* 6371; 2d, *Bal. s.n.*; 21q, *Bal.* 6574; 18j, *Bal.* 6619; 23q, *Bal. s.n.*
 **Petrorhagia illyrica* (Ard.) P.W. Ball & Heywood subsp. *illyrica* – 1c, *Bal.* 7199; 39a, *Bal.* 7304; 34r, *Bal.* 7314.
Polycarpon tetraphyllum (L.) L. – (Chaubard & Bory 1838).
 **Sagina apetala* Ard. – 31t, *Bal.* 6887.
 **Silene cretica* L. – 34r, *Bal.* 7993.
 **Silene integripetala* Bory & Chaub. subsp. *integripetala* – 37s, *Bal.* 6941.
 **Silene italica* subsp. *peloponnesiaca* Greuter – 46q, *Bal.* 5855; 45g, *Bal.* 6387; 7f, *Bal.* 6703; 23a, *Bal.* 6788; 32g, *Bal.* 6837; 1c, *Bal.* 7202; 2d, *Bal.* 7228; 34f, *Bal.* 7327.
 **Silene viridiflora* L. – 32q, *Bal.* 5588; - 29r, *Bal.* 5637; 45q, *Bal.* 7114.
Silene vulgaris (Moench) Garcke *s.l.* – 21s, *Bal.* 6027; 33r, *Bal.* 6905.
 **Stellaria cupaniana* (Jord. & Fourr.) Bég. – 2s, *Bal.* 5885; 36t, *Bal.* 5944; 7r, *Bal.* 6704; 5a, *Bal.* 6745.
 **Stellaria media* (L.) Vill. – 40t, *Bal.* 5937.
 **Stellaria pallida* (Dumort.) Crép. – 46q, *Bal.* 5847. – The nomenclature of this species follows Kent (1997).
Velezia rigida L. – (Giannopoulos & al. 2011b).

CHENOPODIACEAE

- **Atriplex patula* L. – 36t, *Bal.* 2190; 29t, *Bal.* 5676.
 **Beta vulgaris* subsp. *maritima* (L.) Arcang. – 36t, *Bal.* 5721.
 **Chenopodium album* L. – 29t, *Bal.* 5648.
 *[*Chenopodium giganteum* D. Don] – 36t, *Bal. phot.*
 **Chenopodium vulvaria* L. – 29t, *Bal.* 5609.

CISTACEAE

- **Cistus creticus* subsp. *eriocephalus* (Viv.) Greuter & Burdet – 46g, *Bal.* 6337; 45g, *Bal.* 6390; 18j, *Bal.* 6594; 32g, *Bal.* 6847; 30q, *Bal.* 6868; 33g, *Bal.* 6895; 42h, *Bal.* 6947; 44q, *Bal.* 6962; 34r, *Bal.* 7309.
 **Cistus salviifolius* L. – 46g, *Bal.* 6338.
Fumana thymifolia (L.) Webb – (Chaubard & Bory 1838).
 **Helianthemum nummularium* (L.) Mill. subsp. *nummularium* – 21a, *Bal.* 6036; 6a, *Bal.* 6772; 23s, *Bal.* 6798.
Helianthemum salicifolium (L.) Mill. – 23q, *Bal.* 5994; 1c, *Bal.* 6449; 18j, *Bal.* 6596.

COMPOSITAE

- **Achillea grandifolia* Friv. – 5a, *Bal.* 6740.
 **Achillea holosericea* Sm. – 1c, *Bal.* 6438.
Achillea ligustica All. – 33r, *Bal.* 5582; 29h, *Bal.* 5630; 32g, *Bal.* 6838.
 **Achillea setacea* Waldst. & Kit. – 3e, *Bal.* 6529.
 **Anthemis arvensis* L. – 46n, *Bal.* 6378; 2d, *Bal.* 6492; 30q, *Bal.* 6871.
 **Anthemis chia* L. – 11q, *Bal. s.n.*; 13r, *Bal.* 6064.

- **Anthemis cretica* subsp. *tenuiloba* (DC.) Grierson – 1c, *Bal.* 6443; 2d, *Bal.* 6537; 7r, *Bal.* 6709.
Anthemis orientalis (L.) Degen – (Chaubard & Bory 1838 as “*Anacyclus pectinatus*”).
Anthemis tinctoria L. – (Giannopoulos & al. 2011b).
 **Bellis perennis* L. – 1c, *Bal.* 5873.
 **Calendula arvensis* (Vaill.) L. – 36t, *Bal.* 5964; 15q, *Bal.* s.n.
 *[*Calendula officinalis* L.] – 16t, *Bal.* 6679.
 **Carduus acicularis* Bertol. – 44o, *Bal.* 7371.
 **Carduus pycnocephalus* subsp. *albidus* (M. Bieb.) Kazmi – 14t, *Bal.* 6053; 16t, *Bal.* 6680; 6r, *Bal.* 6773.
 **Carlina graeca* Heldr. & Sartori – 24q, *Bal.* 5601; 30q, *Bal.* 5718; 8q, *Bal.* 5756.
 **Carlina gummifera* (L.) Less. – 18j, *Bal.* 6608.
 **Carthamus creticus* L. – 44q, *Bal.* 7375.
 **Carthamus dentatus* (Forssk.) Vahl s.l. – 28q, *Bal.* 5735; 37q, *Bal.* 5736.
Centaurea laconica Boiss. subsp. *laconica* – 22,23,q,s, *Bal.* 6780.
 **Centaurea raphanina* subsp. *mixta* (DC.) Runemark – 1c, *Bal.* 6445.
 **Centaurea solstitialis* L. s. l. – 30q, *Bal.* 5714; 46n, *Bal.* 7097; 10o, *Bal.* 7183.
 **Chondrilla juncea* L. – 32q, *Bal.* 5584; 13r, *Bal.* 6062; 2r, *Bal.* 6495.
 **Cichorium intybus* L. – 36t, *Bal.* 2202; 10t, *Bal.* 7125; 34r, *Bal.* 7338.
 **Cirsium arvense* (L.) Scop. – 29r, *Bal.* 5631.
Cirsium candelabrum Griseb. – 37q, *Bal.* 5738.
 **Cirsium creticum* (Lam.) d’ Urv. subsp. *creticum* – 26m, *Bal.* 5758; 37q, *Bal.* obs.; 36m, *Bal.* obs.
Cirsium eriophorum (L.) Scop. – (Halácsy 1902:110 as “*Cirsium armatum* Velen.”).
 **Cirsium vulgare* (Savi) Ten. – 37q, *Bal.* 5737; 8q, *Bal.* phot.; 28q, *Bal.* obs.
 **Cota brachmannii* (Boiss. & Heldr.) Boiss. – 17j, *Bal.* 6651; 7r, *Bal.* 6683; 23q, *Bal.* 6792; 29r, *Bal.* 6927; 37s, *Bal.* 6939; 3e, *Bal.* 7247.
Cota segetalis (Ten.) Holub – (Halácsy 1902:54-55 as “*Anthemis brachycentros* Asch.”).
 **Crepis dioscoridis* L. – 29q,r, *Bal.* 5606; 45q, *Bal.* 6394; 18j, *Bal.* 6604; 17a, *Bal.* 6670; 1c, *Bal.* 7216.
 **Crepis fraasii* Sch. Bip. – 46g, *Bal.* 5852; 13b, *Bal.* 6104.
 **Crepis hellenica* Kamari subsp. *hellenica* – 46q, *Bal.* 5851; 45q, *Bal.* 6396; 1c, *Bal.* 6444; 2d, *Bal.* 6491; 18j, *Bal.* 6599; 24a, *Bal.* s.n.
 **Crepis rubra* L. – 46q, *Bal.* 5850; 40t, *Bal.* 5933; 30q, *Bal.* 6008; 14t, *Bal.* s.n.
 **Crepis sancta* (L.) Bornm. – 10b, *Bal.* 5914; 11q, *Bal.* s.n.; 40t, *Bal.* s.n.; 36t, *Bal.* 5952; 14t, *Bal.* s.n.; 13r, *Bal.* 6068; 1c, *Bal.* s.n.
 **Crepis zacintha* (L.) Loisel. – 46n, *Bal.* 7102.
 **Crupina crupinastrum* (Moris) Vis. – 1c, *Bal.* 6447; 21a, *Bal.* 6573; 18j, *Bal.* 6609; 7a, *Bal.* s.n.
 **Cyanus pichleri* (Boiss.) Holub subsp. *pichleri* – 1c, *Bal.* 6448; 5a, *Bal.* 6737.
 **Cynara cardunculus* L. – 44q, *Bal.* 7384.
 **Dittrichia graveolens* (L.) Greuter – 29t, *Bal.* 5673.
 **Dittrichia viscosa* (L.) Greuter – 35q,37q, *Bal.* 2192; 41q, *Bal.* obs.
Doronicum orientale Hoffm. – 5a, *Bal.* 6738; 6a, *Bal.* obs.
 **Echinops sphaerocephalus* subsp. *albidus* (Boiss. & Spruner) Kožuharov – 24q, *Bal.* 5598.

- **Echinops sphaerocephalus* L. subsp. *sphaerocephalus* – 1r, Bal. 2181; 8q, Bal. 5753.
 *[*Erigeron sumatrensis* Retz.] – 36t, Bal. 2211; 29t, Bal. 5677.
 **Filago arvensis* L. – 34r, Bal. 7340.
Filago gallica L. – 34r, Bal. 7323.
 **Filago pyramidata* L. – 18j, Bal. 6602.
 **Hedypnois rhagadioloides* (L.) F. W. Schmidt – 46n, Bal. 6377; 18j, Bal. 6605.
 **Helminthotheca echioides* (L.) Holub – 37q, Bal. 5739.
 **Hypochaeris achyrophorus* L. – 18j, Bal. 6606.
Hypochaeris cretensis (L.) Bory & Chaub. – 46q, Bal. 6339; 1c, Bal. 6439; 12b, Bal. 7146; 2d, Bal. 7227; 3e, Bal. 7248.
 **Hypochaeris radicata* L. – 46n, Bal. 7103.
 **Lactuca muralis* (L.) Gaertn. – 29k, Bal. 5643.
 **Lactuca saligna* L. – 29t, Bal. 5697.
 **Lactuca serriola* L. – 29t, Bal. 5698; 31t, Bal. obs.; 36t, Bal. obs.
 **Lactuca viminea* subsp. *ramosissima* (All.) Arcang. – 34r, Bal. 7337.
 **Leontodon biscutellifolius* DC. – 1b, Bal. 6440; 24a, Bal. 6825; 1c, Bal. 7211; 2d, Bal. 7223.
 **Leontodon tuberosus* L. – 46q, Bal. 5831; 10b, Bal. 5915.
 **Matricaria chamomilla* L. – 36t, Bal. 5732.
 **Onopordum illyricum* L. subsp. *cardunculus* (Boiss.) Arènes – 10n, Bal. phot.; 1r, Bal. obs.
 **Onopordum myriacanthum* Boiss. – 46n, Bal. 6376.
 **Pallenis spinosa* (L.) Cass. subsp. *spinosa* – 18j, Bal. 6610.
 **Picnomon acarna* (L.) Cass. – 29q, Bal. 5678; 37q, Bal. obs.; 10q, Bal. obs.; 28q, Bal. obs.
 **Pilosella cymosa* (L.) F.W. Schultz & Sch. Bip. subsp. *sabina* (Sebast. & Mauri) H. P. Fuchs – 32g, Bal. 6839; 3e, Bal. 7257.
 **Pilosella piloselloides* (Vill.) Soják subsp. *bauhinii* (Schult.) S. Bräut. & Greuter – 46g, Bal. 6340; 2d, Bal. 7225; 34r, Bal. 7342.
 **Podospermum canum* C. A. Mey. – 21q, Bal. 6038; 1c, Bal. 6442.
 **Ptilostemon afer* (Jacq.) Greuter subsp. *afer* – 37q, Bal. phot.; 1r, Bal. obs.; 28q, Bal. obs.
 **Ptilostemon stellatus* (L.) Greuter – 37q, Bal. 5741.
 **Pulicaria dysenterica* (L.) Bernh. – 29r, Bal. 5644.
 **Pulicaria odora* (L.) Rchb. – 44g, Bal. 6958.
 **Reichardia picroides* (L.) Roth – 23q, Bal. s.n.; 30q, Bal. s.n.; 18j, Bal. 6598.
 **Rhagadiolus edulis* Gaertn. – 40t, Bal. 5935; 30q, Bal. 6006; 13r, Bal. 6063; 23q, Bal. 6784; 33r, Bal. 6903.
 **Rhagadiolus stellatus* (L.) Gaertn. – 18j, Bal. 6611; 16t, Bal. 6678.
 **Scolymus hispanicus* L. subsp. *hispanicus* – 8q, Bal. 5754; 28q, Bal. obs.
 **Scorzonera crocifolia* Sm. – 18j, Bal. 6607.
 **Scorzoneroides cichoriacea* (Ten.) Greuter – 1c, Bal. 6441; 3e, Bal. 6531.
 **Senecio leucanthemifolius* Poir. subsp. *vernalis* (Waldst. & Kit.) Greuter – 23q, Bal. 5992.
Senecio thapsoides DC. – (Chaubard & Bory 1838 as *Cacalia verbascifolia* Sm.).
 **Senecio vulgaris* L. – 46q, Bal. 5848; 1c, Bal. s.n.; 8p, Bal. s.n.; 2d, Bal. 6493.
 **Silybum marianum* (L.) Gaertn. – 18q, Bal. phot.; 16t, Bal. obs.; 10t, Bal. obs.

- **Sonchus asper* subsp. *glaucescens* (Jord.) Ball – 21q, *Bal.* 6033.
 **Sonchus oleraceus* L. – 29p, *Bal.* 5608.
 *[*Symphytotrichum squamatum* (Spreng.) G. L. Nesom] – 36t, *Bal. obs.*
Taraxacum sp. – 1c, *Bal.* 5872.
 **Tragopogon porrifolius* L. *s.l.* – 46q, *Bal.* 5861; 15q, *Bal.* 6040; 45q, *Bal.* 6395; 18j, *Bal.* 6603.
 **Tragopogon samaritanii* Boiss. – 1c, *Bal.* 6437; 2d, *Bal.* 6494; 7r, *Bal.* 6710.
Tussilago farfara L. – 37s, *Bal.* 2247; 2s, *Bal.* 5886; 7s, *Bal. obs.*
 **Urospermum picroides* (L.) F. W. Schmidt – 45q, *Bal.* 6397; 18j, *Bal.* 6601.
 *[*Xanthium spinosum* L.] – 31t, *Bal.* 5703.
 **Xeranthemum inapertum* (L.) Mill. – 1c, *Bal.* 6446; 24a, *Bal. s.n.*

CONVOLVULACEAE

- **Calystegia silvatica* (Kit.) Griseb. – 45g, *Bal.* 7109; 32q, *Bal.* 7355; 36q, *Bal. obs.*
 **Convolvulus arvensis* L. – 29t, *Bal.* 5613; 46n, *Bal. s.n.*; 2r, *Bal.* 6490; 16t, *Bal.* 6674.
 **Convolvulus cantabrica* L. – 29r, *Bal.* 5615; 17a, *Bal.* 6673; 23s, *Bal. obs.*; 11a, *Bal. s.n.*; 12b, *Bal.* 7145.
 **Convolvulus elegantissimus* Mill. – 9q, *Bal.* 6561; 23s, *Bal.* 6794.
 **Cuscuta approximata* subsp. *macranthera* (Boiss.) Feinbrun & Greuter – 37q, *Bal.* 5580a; 30q, *Bal.* 5580b parasitize on *Spartium junceum*.
 **Cuscuta planiflora* Ten. – 18j, *Bal.* 6614.

CORNACEAE

- Cornus sanguinea* subsp. *australis* (C.A. Mey.) Jáv. – (Giannopoulos & al. 2011a).

CRASSULACEAE

- Sedum amplexicaule* subsp. *tenuifolium* (Sm.) Greuter – 7a, *Bal.* 6686; 23s, *Bal.* 6803; 2d, *Bal. s.n.*; 34r, *Bal.* 7335.
Sedum annuum L. – (Halácsy 1901:591-592 based on a report of “*Sedum saxatile*” by Chaubard & Bory 1838).
Sedum cepaea L. – 29u, *Bal.* 5603; 36u, *Bal.* 7362.
 **Sedum hispanicum* L. – 23s, *Bal.* 6805.
 **Sedum laconicum* Boiss. & Heldr. subsp. *laconicum* – 1b, *Bal.* 6450; 23s, *Bal.* 6804; 24b, *Bal. s.n.*; 12b, *Bal. s.n.*
 **Sedum litoreum* Guss. – 36u, *Bal.* 7949.
 **Sedum rubens* L. – 46n, *Bal.* 6362; 44q, *Bal.* 6956.
Umbilicus horizontalis (Guss.) DC. – 29u, *Bal.* 5604.
Umbilicus luteus (Huds.) Webb & Berthel. – (Halácsy 1912:39 as “*Cotyledon umbilicus*”).
 **Umbilicus rupestris* (Salisb.) Dandy – 29u, *Bal.* 5605; 35a, *Bal.* 5975; 33g, *Bal.* 6894.

CRUCIFERAE

- **Aethionema saxatile* subsp. *graecum* (Boiss. & Spruner) Hayek – 11b, *Bal.* 5920; 23s, *Bal. s.n.*; 10b, *Bal. s.n.*
 **Alliaria petiolata* (M. Bieb.) Cavara & Grande – 27t, *Bal.* 5979; 22q, *Bal.* 6016.

- **Alyssum minus* (L.) Rothm. – 46q, *Bal.* 5862; 8p, *Bal.* 5897; 46n, *Bal.* 6373; 1c, *Bal.* 6461a; 2d, *Bal.* 6505; 6r, *Bal.* 6776; 33r, *Bal.* 6892.
- **Alyssum minutum* Schltld. ex DC. – 8p, *Bal.* 2244; 1c, *Bal.* 6461b; 2d, *Bal.* 7229.
- **Alyssum murale* Waldst. & Kit. – 32q, *Bal.* 5589; 1c, *Bal.* 6458; 11q, *Bal.* 7118; 2d, *Bal.* 7232.
- **Alyssum siculum* Jord. – 1c, *Bal.* 6460; 2d, *Bal.* 6547; 24a, *Bal.* 6820.
- **Arabidopsis thaliana* (L.) Heynh. – 46q, *Bal.* 5838.
- Arabis sagittata* (Bertol.) DC. – 1b, *Bal.* 6454; 29a, *Bal.* 6923; 11q, *Bal.* 7119.
- **Arabis verna* (L.) R.Br. – 11b, *Bal.* 5924; 22u, *Bal.* s.n.; 5a, *Bal.* 6761.
- **Aubrieta deltoidea* (L.) DC. – 5i, *Bal.* 6758.
- **Aurinia saxatilis* subsp. *orientalis* (Ard.) T.R. Dudley – 21s, *Bal.* 6029; 29u, *Bal.* 6915.
- **Biscutella didyma* L. – 44q, *Bal.* 6954.
- **Brassica geniculata* (Desf.) Snogerup & B. Snogerup – 15q, *Bal.* 6039.
- **Bunias erucago* L. – 36t, *Bal.* 5962; 15q, *Bal.* s.n.; 46n, *Bal.* 6374.
- **Calepina irregularis* (Asso) Thell. – 46q, *Bal.* s.n.; 8p, *Bal.* 5899; 40t, *Bal.* 5939; 36t, *Bal.* 5963; 30q, *Bal.* 6009; 14t, *Bal.* s.n.
- **Capsella bursa-pastoris* (L.) Medik. s.l. – 31t, *Bal.* 5706; 46q, *Bal.* 5841; 2r, *Bal.* 5887; 8p, *Bal.* s.n.; 40t, *Bal.* 5938; 27t, *Bal.* obs.; 14t, *Bal.* s.n.
- Cardamine graeca* L. – 36s, *Bal.* 5950.
- **Cardamine hirsuta* L. – 2d,r,8,p, *Bal.* 5883; 36t, *Bal.* 5951; 32g, *Bal.* 6844.
- **Clypeola jonthlaspi* L. subsp. *jonthlaspi* – 10b, *Bal.* 5912; 11q, *Bal.* 5926; 23q, *Bal.* 5997; 13b, *Bal.* 6089; 1c, *Bal.* 6456; 2d, *Bal.* 6504; 24a, *Bal.* 6819.
- ?*Descurainia sophia* (L.) Webb ex Prantl – (Chaubard & Bory 1838 as *Sisymbrium sophia* L.)
The native distribution of this species in Greece includes northern and eastern parts of mainland not further south than 38 °N. Older records from Peloponnisos need confirmation (Tan 2002). The species is temporarily not included in the mountain's flora.
- **Draba muralis* L. – 46q, *Bal.* 5842; 1c, *Bal.* s.n.; 8p, *Bal.* 5900; 5a, *Bal.* 6759.
- **Erophila verna* (L.) Chevall. – 8p, *Bal.* 5895.
- Erysimum asperulum* Boiss. & Heldr. – (Giannopoulos & al. 2011b).
- **Erysimum pectinatum* Bory & Chaub. – 5a, *Bal.* 6762; 23s, *Bal.* 6799.
- **Erysimum cephalonicum* Polatschek – 1c, *Bal.* 2179; 2d, *Bal.* 6503; 23s, *Bal.* 6807; 24a, *Bal.* 6818.
- **Hornungia petraea* (L.) Rchb. – 4b, *Bal.* 7970.
- **Lepidium draba* L. – 40t, *Bal.* 5871; 2r, *Bal.* s.n.
- **Lepidium graminifolium* L. – 36t, *Bal.* 2203; 26t, *Bal.* 5749; 27t, *Bal.* obs.
- Lepidium hirtum* subsp. *nebrodense* (Raf.) Thell. – 9a, *Bal.* 6560; 34r, *Bal.* 7348.
- **Lunaria annua* subsp. *pachyrhiza* (Borbás) Hayek – 27t, *Bal.* 5977; 5a, *Bal.* 6760.
- **Malcolmia graeca* subsp. *bicolor* (Boiss. & Heldr.) Stork – 1c,2d,8r, *Bal.* 5876; 23a, *Bal.* 5999; 24a, *Bal.* 6817.
- Malcolmia orsiniana* subsp. *serbica* (Pančić) Greuter & Burdet – (Giannopoulos & al. 2011b).
- Myagrum perfoliatum* L. – (Friedrichsthal 1838).
- **Nasturtium officinale* R. Br. – 26m, *Bal.* 5748; 36m, *Bal.* 5955; 2r, *Bal.* s.n.
- **Raphanus raphanistrum* L. subsp. *raphanistrum* – 36t, *Bal.* 5961; 14t, *Bal.* 6056.
- **Rapistrum rugosum* (L.) All. – 46q, *Bal.* 6344.
- **Sisymbrium officinale* (L.) Scop. – 40t, *Bal.* s.n.
- **Sisymbrium orientale* L. – 10t, *Bal.* 5918; 40t, *Bal.* 5934; 27t, *Bal.* 5978; 16t, *Bal.* 6677.

**Thlaspi graecum* Jord. – 1c,2d, *Bal.* 5877.

**Thlaspi perfoliatum* L. subsp. *perfoliatum* – 46q, *Bal.* 5840; 8p, *Bal.* 5896; 23q, *Bal.* 5996; 1c, *Bal.* 6459.

CUCURBITACEAE

**Ecballium elaterium* (L.) A. Rich. – 29t, *Bal.* obs.

DIPSACACEAE

Knautia arvensis (L.) Coult. – (Chaubard & Bory 1838 as *Scabiosa arvensis* L.).

**Knautia integrifolia* (L.) Bertol. *s.l.* – 18j, *Bal.* 6643; 23q, *Bal.* 6790; 34r, *Bal.* 7313.

Pterocephalus perennis Coult. subsp. *perennis* – 3b, *Bal.* 7292.

**Tremastelma palaestinum* (L.) Janch. – 18j, *Bal.* 6633; 17j, *Bal.* 6653; 37s, *Bal.* 6940; 10b, *Bal.* 7164.

ERICACEAE

**Erica arborea* L. – 45g, *Bal.* obs.

EUPHORBIACEAE

**Euphorbia apios* L. – 1c, *Bal.* 5880; 18j, *Bal.* *s.n.*

**Euphorbia chamaesyce* L. – 29t, *Bal.* 5616.

**Euphorbia exigua* L. – 18j, *Bal.* 6595.

**Euphorbia helioscopia* L. – 46q, *Bal.* 5865; 40t, *Bal.* 5936; 30q, *Bal.* 6011; 14t, *Bal.* 6049.

**Euphorbia peplus* L. – 13r, *Bal.* 6090.

**Euphorbia taurinensis* All. – 11q, *Bal.* 5921; 23q, *Bal.* 5998.

**Mercurialis annua* L. – 40u, *Bal.* 5943; 14t, *Bal.* 6048.

FAGACEAE

**Castanea sativa* Mill. – 29h, *Bal.* 5663; 45g, *Bal.* obs.; 42h, *Bal.* obs.

Quercus cerris L. – (Friedrichsthal 1838).

**Quercus coccifera* L. – 1c, *Bal.* *s.n.*

**Quercus frainetto* Ten. – 32g, *Bal.* 5716; 46g, *Bal.* 5834; 45g, *Bal.* 6393; 30g, *Bal.* 6873; 33g, *Bal.* 6899; 44g, *Bal.* 6968.

**Quercus ilex* L. – 21a, *Bal.* obs.

Quercus ithaburensis subsp. *macrolepis* (Kotschy) Hedge & Yalt. – (Chaubard & Bory 1838).

Quercus pubescens Willd. – 24a, *Bal.* 5599; 29a, *Bal.* 5619; 17a, *Bal.* 6666; 30g, *Bal.* 6872; 29a, *Bal.* 6928; 44a, *Bal.* 6951.

FUMARIACEAE

**Fumaria officinalis* L. subsp. *officinalis* – 40t, *Bal.* 5929; 36t, *Bal.* 5949; 31t, *Bal.* 5705; 14t, *Bal.* 6047; 16t, *Bal.* 6681

GENTIANACEAE

Blackstonia perfoliata (L.) Huds. subsp. *perfoliata* – 37q, *Bal.* 5740.

Centaurium erythraea Rafn *s. l.* – 45q, *Bal.* 7112; 34r, *Bal.* 7316.

GERANIACEAE

- **Erodium cicutarium* (L.) L' Hér. – 46q, *Bal.* 5843; 1c,2d, *Bal.* 5875; 11q, *Bal.* 5927; 15q, *Bal.* 6043.
- **Erodium malacoides* (L.) L' Hér. – 40t, *Bal.* 5932; 14t, *Bal.* 6057.
- **Erodium moschatum* (L.) L' Hér. – 13r, *Bal.* 6066.
- **Geranium asphodeloides* Burm. f. – 45q, *Bal.* 6411; 29a, *Bal.* 6924.
- **Geranium columbinum* L. – 46q, *Bal.* 5845; 13b, *Bal.* 6098.
- **Geranium dissectum* L. – 46o, *Bal.* 5774.
- **Geranium lucidum* L. – 36s, *Bal.* 5954; 27u, *Bal.* 5982; 22u, *Bal.* s.n.; 13r, *Bal.* s.n.; 23s, *Bal.* s.n.
- **Geranium macrostylum* Boiss. – 1c, *Bal.* s.n. (only leaves); 5a, *Bal.* 6743.
- **Geranium molle* subsp. *brutium* (Gasp.) Graebn. – 5a, *Bal.* 6742; 36t, *Bal.* obs.
- **Geranium molle* L. subsp. *molle* – 46q, *Bal.* 5839; 40t, *Bal.* 5931; 14t, *Bal.* 6058; 13r, *Bal.* s.n.; 36t, *Bal.* obs.
- **Geranium peloponnesiacum* Boiss. – 32g, *Bal.* 6857.
- Geranium pusillum* Burm. f. – (Giannopoulos & al. 2011a).
- **Geranium robertianum* subsp. *purpureum* (Vill.) Nyman – 46q, *Bal.* 5844; 11q, *Bal.* s.n.
- **Geranium rotundifolium* L. – 23q, *Bal.* s.n.

GUTTIFERAE

- Hypericum olympicum* L. – (Chaubard & Bory 1838).
- **Hypericum perforatum* L. – 32q, *Bal.* 5586; 29r, *Bal.* 5638; 31t, *Bal.* 5712; 7r, *Bal.* 6700; 45q, *Bal.* 7113; 10o, *Bal.* 7186; 34r, *Bal.* 7311.
- **Hypericum tetrapterum* Fr. – 29m, *Bal.* 5664; 36m, *Bal.* 5725.
- **Hypericum vesiculosum* Griseb. – 32s, *Bal.* 5587.

LABIATAE

- Acinos alpinus* subsp. *meridionalis* (Nyman) P.W. Ball – (as “*Thymus acynos* L.” Chaubard & Bory 1838).
- **Ajuga orientalis* L. – 36q, *Bal.* 5945; 5r, *Bal.* 6721.
- Ballota acetabulosa* (L.) Benth. – (Chaubard & Bory 1838).
- Ballota nigra* subsp. *uncinata* (Fiori & Béguin) Patzak – 29t, *Bal.* 5685; 31t, *Bal.* 5711; 36t, *Bal.* obs.
- Calamintha nepeta* subsp. *glandulosa* (Req.) P.W. Ball – 36t, *Bal.* 2208; 29t, *Bal.* obs.; 31t, *Bal.* obs.
- Clinopodium vulgare* subsp. *orientale* Bothmer – 32q, *Bal.* 5585; 23a, *Bal.* s.n.; 33g, *Bal.* 6898; 34f, *Bal.* 7329.
- **Lamium amplexicaule* L. – 8p, *Bal.* 5902; 10t, *Bal.* s.n.; 13r, *Bal.* 6070.
- **Lamium bifidum* Cirillo subsp. *bifidum* – 36t, *Bal.* 5953; 27t, *Bal.* 5981.
- **Lamium garganicum* subsp. *striatum* (Sm.) Hayek – 1b,2d, *Bal.* 5878; 5a, *Bal.* s.n.
- **Lamium purpureum* L. – 35k, *Bal.* 5970.
- **Melissa officinalis* subsp. *altissima* (Sm.) Arcang. – 29o, *Bal.* 5614; 36t, *Bal.* obs.
- **Mentha spicata* subsp. *condensata* (Briq.) Greuter & Burdet – 36m, *Bal.* 2205; 29m, *Bal.* 5625.
- Micromeria juliana* (L.) Rechb. – 29s, *Bal.* 5621; 18j, *Bal.* 6620; 24a, *Bal.* 6814; 41a, *Bal.* 6936; 11s, *Bal.* 7117; 12b, *Bal.* 7139.

- **Origanum vulgare* subsp. *hirtum* (Link) Ietsw. – 37q, *Bal.* 2195; 17q, *Bal.* 6668; 45q, *Bal.* 7110.
- Phlomis fruticosa* L. – 13b, *Bal.* 6096; 23a, *Bal. obs.*; 1c, *Bal. obs.*; 23a, *Bal. obs.*; 21a, *Bal. obs.*; 6a, *Bal. obs.*
- Phlomis samia* L. – 7f, *Bal. s.n.*; 33g, *Bal.* 6897; 34f, *Bal.* 7330; 42g, *Bal. obs.*
- **Prunella laciniata* (L.) L. – 45q, *Bal. s.n.*; 18j, *Bal.* 6621; 3e, *Bal. s.n.*
- **Prunella vulgaris* L. – 36t, *Bal.* 2204; 42q, *Bal.* 6948.
- **Salvia argentea* L. – 1c, *Bal.* 6482.
- **Salvia pratensis* L. subsp. *pratensis* – 12b, *Bal.* 7137.
- **Salvia verbenaca* L. – 29t, *Bal.* 5611.
- Salvia virgata* Jacq. – 44q, *Bal.* 6957.
- **Salvia viridis* L. – 18j, *Bal.* 6623.
- Scutellaria rupestris* subsp. *parnassica* (Boiss.) Greuter & Burdet – (Giannopoulos & al. 2011b).
- Sideritis purpurea* Benth. – 18j, *Bal.* 6624.
- Stachys candida* Bory & Chaub. – (Chaubard & Bory 1838).
- Stachys canescens* Bory & Chaub. – (Halácsy 1902:524 based on a report of “*Stachys tournefortii*” by Chaubard & Bory 1838).
- Stachys cretica* L. *s.l.* – (Halácsy 1902).
- Stachys germanica* subsp. *heldreichii* (Boiss.) Hayek – (Giannopoulos & al. 2012b).
- **Stachys graeca* Boiss. & Heldr. – 45q, *Bal.* 6391; 18j, *Bal.* 6647; 24a, *Bal.* 6815; 10q, *Bal.* 7185; 3e, *Bal.* 7266.
- **Stachys spinulosa* Sm. – 29t, *Bal.* 7957.
- Teucrium capitatum* L. – 18j, *Bal.* 6622; 12b, *Bal.* 7138.
- Teucrium chamaedrys* L. subsp. *chamaedrys* – 21a, *Bal.* 6576; 10b, *Bal.* 7128.
- **Teucrium flavum* subsp. *hellenicum* Rech. f. – 37a, *Bal.* 5581; 11s, *Bal.* 7120.
- **Thymus longicaulis* subsp. *chaubardii* (Rechb. f.) Jalas – 1c, *Bal.* 6475; 2d, *Bal.* 7234; 3b, *Bal.* 7297.
- Thymus pulegioides* L. – (Chaubard & Bory 1838 as “*Thymus glabratus*”).

LEGUMINOSAE

- **Anthyllis vulneraria* subsp. *rubriflora* (DC.) Arcang. – 45q, *Bal.* 6404; 1c, *Bal.* 6423; 7a, *Bal. s.n.*; 24a, *Bal.* 6830.
- **Astragalus depressus* L. subsp. *depressus* – 1c, *Bal.* 6425; 2d, *Bal.* 6498.
- **Astragalus hamosus* L. – 13r, *Bal.* 6079; 18j, *Bal. s.n.*
- Astragalus lusitanicus* subsp. *orientalis* Chater & Meikle – 21q, *Bal.* 6026.
- **Bituminaria bituminosa* (L.) C.H. Stirt. – 13q, *Bal.* 6060; 30q, *Bal. s.n.*; 44q, *Bal. s.n.*; 40t, *Bal. obs.*
- **Calicotome villosa* (Poir.) Link – 46g, *Bal.* 5832; 37a, *Bal. obs.*; 41a, *Bal. obs.*; 15a, *Bal. obs.*; 17j, *Bal. obs.*
- Cercis siliquastrum* L. subsp. *siliquastrum* – 21a, *Bal. obs.*
- *[*Cicer arietinum* L.] – 23q, *Bal.* 6789.

The species was found on road margins in contact with natural vegetation, away from cultivated areas. It can be considered as fully naturalized.

- **Colutea arborescens* L. subsp. *arborescens* – 21a, *Bal.* 6575.
- **Coronilla scorpioides* (L.) W.D.J. Koch – 23a, *Bal.* 5995; 1c, *Bal.* 6424; 23s, *Bal. s.n.*; 12b, *Bal. s.n.*
- Cytisus villosus* Pourr. – 30q, *Bal.* 5984; 32g, *Bal.* 6853.
- Dorycnium herbaceum* Vill. subsp. *herbaceum* – (Chaubard & Bory 1838).
- **Dorycnium hirsutum* (L.) Ser. – 45q, *Bal.* 6406; 39q, *Bal. obs.*; 42q, *Bal.* 6946.
- **Genista acanthoclada* DC. s. l. – 45g, *Bal. s.n.*
- Gonocytisus dirmilensis* Hub.-Mor. – (Giannopoulos & al. 2011b).
- **Hippocrepis biflora* Spreng. – 13r, *Bal.* 6088; 18j, *Bal.* 6579; 24a, *Bal.* 6826; 12b, *Bal.* 7131.
- Hippocrepis emerus* subsp. *emeroides* (Boiss. & Spruner) Lassen – 21a, *Bal.* 6021; 7a, *Bal.* 6694.
- **Hymenocarpos circinnatus* (L.) Savi – 13b, *Bal.* 6087; 45q, *Bal.* 6401; 42q, *Bal. s.n.*; 31q, *Bal. obs.*
- **Lathyrus amphicarpos* L. – 12r, *Bal.* 7130.
- **Lathyrus aphaca* L. – 46q, *Bal. s.n.*; 21q, *Bal.* 6022; 13r, *Bal.* 6075.
- **Lathyrus digitatus* (M. Bieb.) Fiori – 1c, *Bal.* 6422; 3e, *Bal. s.n.*; 2d, *Bal. s.n.*; 17j, *Bal. s.n.*; 7a, *Bal. s.n.*
- Lathyrus grandiflorus* Sm. – (Giannopoulos & al. 2011a).
- **Lathyrus laxiflorus* (Desf.) Kuntze subsp. *laxiflorus* – 33g, *Bal.* 6014; 23a, *Bal. s.n.*; 32g, *Bal. s.n.*; 42h, *Bal.* 6944.
- **Lathyrus niger* (L.) Bernh. subsp. *niger* – 43q, *Bal.* 6949.
- **Lathyrus sphaericus* Retz. – 21q, *Bal.* 6023; 13b, *Bal.* 6093.
- **Lotus angustissimus* L. – 46q, *Bal.* 6345; 3e, *Bal.* 7255.
- **Lotus longisiliquosus* R. Roem. – 46q, *Bal.* 5833; 18j, *Bal. s.n.*; 6r, *Bal.* 6778; 24a, *Bal.* 6828; 37s, *Bal.* 6943; 12b, *Bal.* 7135.
- **Lotus ornithopodioides* L. – 12b, *Bal.* 7134; 37s, *Bal.* 7367.
- **Lupinus albus* subsp. *graecus* (Boiss. & Spruner) Franco & P.Silva – 46s, *Bal.* 5829; 45q, *Bal.* 6405; 30q, *Bal.* 6878; 34r, *Bal.* 7322.
- **Lupinus angustifolius* L. – 21s, *Bal.* 6017.
- Lupinus micranthus* Guss. – (Friedrichsthal 1838 as “*Lupinus hirsutus*”).
- **Medicago arabica* (L.) Huds. – 14t, *Bal.* 6046; 46q, *Bal.* 6351; 10o, *Bal. s.n.*
- **Medicago disciformis* DC. – 18j, *Bal.* 6584.
- **Medicago falcata* L. – 1c, *Bal.* 6434; 3e, *Bal.* 6520; 2d, *Bal.* 7220.
- **Medicago intertexta* (L.) Mill. – 44o, *Bal.* 7373.
- **Medicago lupulina* L. – 45q, *Bal.* 6407; 1c, *Bal.* 6430; 2d, *Bal.* 6499; 23a, *Bal. s.n.*; 37s, *Bal.* 6942.
- **Medicago minima* (L.) L. – 15q, *Bal.* 6042; 1c, *Bal.* 6432; 18j, *Bal.* 6583; 23q, *Bal.* 6793; 24a, *Bal.* 6827; 30q, *Bal.* 6877.
- **Medicago orbicularis* (L.) Bartal. – 8p, *Bal. s.n.*; 46n, *Bal.* 6357; 1c, *Bal.* 6433.
- **Medicago polymorpha* L. – 46n, *Bal.* 6356; 9q, *Bal.* 6565; 18j, *Bal. s.n.*
- **Medicago praecox* DC. – 33r, *Bal.* 6888.
- **Medicago rigidula* (L.) All. – 46q, *Bal.* 6352; 1c, *Bal.* 6431; 18j, *Bal. s.n.*; 30q, *Bal. s.n.*; 33r, *Bal.* 6889.
- *[*Medicago sativa* L. subsp. *sativa*] – 44q, *Bal.* 7382.

- **Melilotus graecus* (Boiss. & Spruner) Lassen – 37s, *Bal.* 7368.
 **Melilotus neapolitanus* Ten. – 46s, *Bal.* 6347; 45q, *Bal.* 6399; 18j, *Bal.* 6640; 33r, *Bal.* 6890.
 **Melilotus segetalis* (Brot.) Ser. – 3e, *Bal.* 7253.
 **Onobrychis aequidentata* (Sm.) d' Urv. – 18j, *Bal.* 6577.
Onobrychis caput-galli Lam. – 18j, *Bal.* 6578; 44a, *Bal.* s.n.
 **Ononis spinosa* subsp. *antiquorum* (L.) Arcang. – 10o, *Bal.* 7177.
 **Ornithopus compressus* L. – 21s, *Bal.* 6018; 46q, *Bal.* 6346; 44q, *Bal.* 6966.
 **Pisum sativum* L. s.l. – 33r, *Bal.* 6013.
 **Scorpiurus muricatus* L. – 45q, *Bal.* 6400; 18j, *Bal.* s.n.; 17j, *Bal.* s.n.
 **Securigera securidaca* (L.) Degen & Dörfel. – 26t, *Bal.* 7941; 36t, *Bal.* 7946.
 **Spartium junceum* L. – 32g, *Bal.* obs.
 **Trifolium angustifolium* L. – 46q, *Bal.* 6349; 45q, *Bal.* 6410; 17q, *Bal.* 6669.
 **Trifolium arvense* L. – 30q, *Bal.* 6879; 2d, *Bal.* 7222; 3e, *Bal.* 7249.
 **Trifolium brutium* Ten. – 2s, *Bal.* 6545; 7r, *Bal.* 6708; 5r, *Bal.* 6718; 5a, *Bal.* 6768; 23s, *Bal.* s.n.; 34r, *Bal.* 7345.
 **Trifolium campestre* Schreb. – 9q, *Bal.* 6564; 18j, *Bal.* 6582.
 **Trifolium cherleri* L. – 46n, *Bal.* 6354; 2d, *Bal.* s.n.; 2r, *Bal.* 6546; 7r, *Bal.* 6707.
 **Trifolium dalmaticum* Vis. – 1c, *Bal.* 6427; 9q, *Bal.* 6558; 30q, *Bal.* 6880; 10t, *Bal.* 7126; 12b, *Bal.* 7129; 10o, *Bal.* 7184; 3e, *Bal.* 7246.
 **Trifolium grandiflorum* Schreb. – 45q, *Bal.* 6408; 7a, *Bal.* 6689; 5r, *Bal.* s.n.; 23q, *Bal.* s.n.; 2d, *Bal.* 7221.
 **Trifolium infamia-ponertii* Greuter – 18j, *Bal.* 6580; 7r, *Bal.* 6688; 34r, *Bal.* 7324.
 **Trifolium lappaceum* L. – 44q, *Bal.* 7377.
 **Trifolium leucanthum* M. Bieb. – 1c, *Bal.* 6428; 3e, *Bal.* 7260; 34r, *Bal.* 7350.
 **Trifolium lucanicum* Guss. – 24a, *Bal.* 6829; 33r, *Bal.* 6891; 1c, *Bal.* 7206.
 **Trifolium nigrescens* Viv. subsp. *nigrescens* – 9q, *Bal.* 6562; 3e, *Bal.* 7251.
 **Trifolium ochroleucon* Huds. – 32g, *Bal.* 6840; 33g, *Bal.* 6901; 44g, *Bal.* 6967; 3e, *Bal.* 7252; 34f, *Bal.* 7326.
 **Trifolium pallidum* Waldst. & Kit. – 29t, *Bal.* 5684; 46q, *Bal.* 6350; 3e, *Bal.* 6530; 10o, *Bal.* 7180.
 **Trifolium physodes* M. Bieb. – 10b, *Bal.* 5916; 36t, *Bal.* 5959; 1c, *Bal.* 6426; 3e, *Bal.* s.n.; 5a, *Bal.* s.n.
 **Trifolium pignantii* Fauché & Chaub. – 45q, *Bal.* 6409; 6r, *Bal.* 6779; 32g, *Bal.* 6854; 42h, *Bal.* 6945.
 **Trifolium pratense* L. – 36m, *Bal.* 2188; 26m, *Bal.* 5750.
 **Trifolium repens* L. – 36t, *Bal.* 5726; 9q, *Bal.* 6559; 33r, *Bal.* 6902.
 **Trifolium scabrum* L. – 18j, *Bal.* 6581.
 **Trifolium stellatum* L. – 13r, *Bal.* 6074; 1c, *Bal.* 6429; 2d, *Bal.* s.n.; 18j, *Bal.* s.n.; 7r, *Bal.* s.n.; 5a, *Bal.* 6769; 23q, *Bal.* s.n.
 **Trifolium striatum* L. – 3e, *Bal.* 7261.
 **Trifolium strictum* L. – 3e, *Bal.* 7250.
 **Trifolium subterraneum* L. – 46n, *Bal.* 6355; 10o, *Bal.* 7181.
 **Trifolium tomentosum* L. – 46q, *Bal.* 6358.
 **Trigonella gladiata* M. Bieb. – 1c, *Bal.* 6435.
 **Vicia bithynica* (L.) L. – 13r, *Bal.* 6073; 18j, *Bal.* 6641.

- **Vicia hirsuta* (L.) Gray – 46s, *Bal.* 6348.
- **Vicia hybrida* L. – 8p, *Bal.* 5904; 13r, *Bal.* 6072; 3e, *Bal.* 6526.
- Vicia lathyroides* L. – 8p, *Bal.* 5898; 32g, *Bal.* 6841.
- Vicia laeta* Cesati – 35q, *Bal.* 5974; 21s, *Bal.* 6019.
- **Vicia melanops* Sm. – 22q, *Bal.* 5990.
- **Vicia pubescens* (DC.) Link – 44q, *Bal.* 7374
- **Vicia sativa* subsp. *incisa* (M. Bieb.) Arcang. – 29r, *Bal.* 6926.
- **Vicia sativa* subsp. *nigra* (L.) Ehrh. – 13r, *Bal.* 6069; 45q, *Bal.* 6402; 18j, *Bal. s.n.*; 29r, *Bal.* 6925; 37s, *Bal.* 6938.
- **Vicia tenuifolia* subsp. *dalmatica* (A. Kern.) Greuter – 5r, *Bal.* 6719.
- **Vicia villosa* subsp. *eriocarpa* (Hauskn.) P. W. Ball – 22q, *Bal.* 5991; 14t, *Bal.* 6054; 46n, *Bal.* 6353; 45q, *Bal.* 6403; 2r, *Bal.* 6544; 18j, *Bal.* 6642; 17j, *Bal.* 6650; 10o, *Bal.* 7182.

LINACEAE

- **Linum bienne* Mill. – 30q, *Bal.* 6870; 12r, *Bal.* 7147.
- **Linum corymbulosum* Rchb. – 18j, *Bal.* 6635.
- **Linum pubescens* Banks & Sol. s. l. – 18j, *Bal.* 6636.

LYTHRACEAE

- **Lythrum junceum* Banks & Sol. – 44m, *Bal.* 7385.

MALVACEAE

- Alcea biennis* subsp. *cretica* (Weinm.) Valdés – 46n, *Bal.* 7101; 37q, *Bal. obs.*
- **Lavatera bryoniifolia* Mill. – 17q, *Bal.* 6652.
- **Malva parviflora* L. – 31t, *Bal.* 5707.
- **Malva sylvestris* L. – 29t, *Bal.* 5686; 7r, *Bal.* 6693.

NYCTAGINACEAE

- *[*Mirabilis jalapa* L.] – 40t, *Bal. obs.*

OLEACEAE

- Fraxinus ornus* L. – 44a, *Bal.* 5743; 21a, *Bal. obs.*; 37a, *Bal. obs.*; 5a, *Bal.* 6755; 32g, *Bal. s.n.*; 15a, *Bal. obs.*; 6a, *Bal. obs.*
- **Phillyrea latifolia* L. – 13b, *Bal. s.n.*; 12b, *Bal. s.n.*; 21a, *Bal. obs.*; 6a, *Bal. obs.*

ONAGRACEAE

- **Epilobium hirsutum* L. – 36m, *Bal.* 2183; 29m, *Bal.* 5649.
- **Epilobium lanceolatum* Sebast. & Mauri – 34r, *Bal.* 7343.
- **Epilobium parviflorum* Schreb. – 29m, *Bal.* 5669; 36m, *Bal.* 5723.
- **Epilobium tetragonum* L. s. l. – 29r, *Bal.* 5632.

OROBANCHACEAE

- **Orobanche alba* Willd. – 24a, *Bal.* 6812.
- Orobanche amethystea* Thuill. – (Giannopoulos & al. 2011a).

OXALIDACEAE

**Oxalis corniculata* L. – 29t, *Bal.* 5675.

PAPAVERACEAE

**Papaver apulum* Ten. – 46n, *Bal.* 6366; 5a, *Bal.* 6744; 30q, *Bal.* 6864; 3e, *Bal.* 7263.

**Papaver rhoeas* L. – 14q, *Bal.* 6045; 46q, *Bal.* 6336; 16t, *Bal.* 6672.

PHYTOLACCACEAE

[*Phytolacca americana* L.] – (Giannopoulos & al. 2011b).

PLANTAGINACEAE

**Plantago afra* L. – 18j, *Bal.* 6613.

**Plantago bellardii* All. – 46n, *Bal.* 6365.

**Plantago lagopus* L. – 13r, *Bal.* 6077; 46n, *Bal.* 6367; 12r, *Bal.* s.n.

**Plantago lanceolata* L. – 3e, *Bal.* 6524; 18j, *Bal.* 6612; 3e, *Bal.* 7256.

**Plantago major* L. s. l. – 36m, *Bal.* 2206; 29k, *Bal.* 5652.

PLATANACEAE

**Platanus orientalis* L. – 29k, *Bal.* phot.; 31k, *Bal.* phot.; 36k, *Bal.* obs.; 21k, *Bal.* obs.

PLUMBAGINACEAE

Armeria canescens (Host) Boiss. – 1c, *Bal.* 6474; 5a, *Bal.* 6723; 2d, *Bal.* 7236; 3e, *Bal.* 7258.

**Plumbago europaea* L. – 36t, *Bal.* 2200; 40t, *Bal.* obs.

POLYGALACEAE

Polygala monspeliaca L. – 18j, *Bal.* 6597; 24a, *Bal.* s.n.; 3e, *Bal.* 7264.

Polygala nicaeensis W.D.J. Koch s. l. – (Halácsy 1900:147 based on a report of “*P. thuringiaca*” by Friedrichsthal 1838).

POLYGONACEAE

**Persicaria lapathifolia* (L.) S.F. Gray subsp. *lapathifolia* – 36m, *Bal.* 5727.

**Polygonum aviculare* subsp. *neglectum* (Besser) Arcang. – 36t, *Bal.* 2187; 29t, *Bal.* 5674.

**Polygonum bellardii* All. – 29t, *Bal.* 5610.

**Polygonum longipes* Halácsy & Charrel – 29t, *Bal.* 5689.

**Rumex acetosella* subsp. *acetoselloides* (Balansa) Den Nijs – 34r, *Bal.* 7351.

Rumex bucephalophorus L. subsp. *bucephalophorus* – 46n, *Bal.* 5864; 46n, *Bal.* 6364; 34r, *Bal.* 7305.

**Rumex conglomeratus* Murray – 29k, *Bal.* 5653; 10m, *Bal.* 5744; 36m, *Bal.* 7364.

**Rumex crispatus* DC. – 29t, *Bal.* 5683; 31t, *Bal.* 5702.

**Rumex pulcher* L. subsp. *pulcher* – 29t, *Bal.* 5618; 46n, *Bal.* 6363; 16t, *Bal.* 6671.

Rumex tuberosus subsp. *horizontalis* (C. Koch) Rech. f. – 1c, *Bal.* 6486; 7r, *Bal.* 6685.

PORTULACACEAE

**Portulaca oleracea* L. subsp. *oleracea* – 29t, *Bal.* obs.

PRIMULACEAE

- **Anagallis arvensis* L. – 18j, *Bal.* 6615.
 **Asterolinon linum-stellatum* (L.) Duby – 18j, *Bal.* 6616.
 **Cyclamen hederifolium* Aiton – 1c, *Bal. s.n.*; 35k, *Bal.* 5966; 32g, *Bal. s.n.*
 **Lysimachia atropurpurea* L. – 46q, *Bal. s.n.*; 29q, *Bal. obs.*; 32q, *Bal. obs.*
Primula acaulis subsp. *rubra* (Sm.) Greuter & Burdet – 35k, *Bal.* 5969.

RANUNCULACEAE

- Anemone apennina* subsp. *blanda* (Schott & Kotschy) Nyman – 35a, *Bal.* 5972; 32g, *Bal. s.n.*; 21a, *Bal. obs.*
Anemone pavonina Lam. – 46q, *Bal.* 5830.
Clematis flammula L. – 29r, *Bal.* 5656.
 **Clematis vitalba* L. – 32q, *Bal.* 2207; 29r, *Bal.* 5655.
 **Consolida ajacis* (L.) Schur – 17j, *Bal.* 6655; 10t, *Bal.* 7127; 3e, *Bal.* 7245.
Delphinium hellenicum Pawl. – (Giannopoulos & al. 2011b).
 **Nigella damascena* L. – 17j, *Bal.* 6656.
 **Ranunculus ficaria* L. s. l. – 1c,2d, *Bal.* 2243.
 **Ranunculus gracilis* E. D. Clarke – 13b, *Bal.* 6091; 5a, *Bal.* 6724; 34r, *Bal.* 7334.
 ?*Ranunculus lanuginosus* L. – (Friedrichsthal 1838).

According to Strid (2002) only two Greek collections of this species have been seen, both from the far north-east. For this reason the taxon is not included in the mountain's flora.

- **Ranunculus neapolitanus* Ten. – 13q, *Bal.* 6059; 46q, *Bal.* 6379; 45q, *Bal.* 6392; 23q, *Bal.* 6791; 33g, *Bal.* 6900.
 **Ranunculus paludosus* Poir. – 2d, *Bal.* 2245.
 **Ranunculus psilostachys* Griseb. – 6a, *Bal.* 6774.
 **Ranunculus sardous* Crantz – 36m, *Bal.* 5957.
 **Ranunculus sprunerianus* Boiss. – 1b, *Bal.* 6483; 5a, *Bal.* 6725.
 **Ranunculus velutinus* Ten. – 2r, *Bal.* 6550; 32g, *Bal.* 6842; 30q, *Bal.* 6866; 29h, *Bal.* 6930.

RHAMNACEAE

- **Rhamnus saxatilis* subsp. *prunifolia* (Sm.) Aldén – 1c, *Bal.* 6476; 5a, *Bal.* 6748.

ROSACEAE

- **Agrimonia eupatoria* L. s.l. – 29r, *Bal.* 5642.
 **Aphanes arvensis* L. – 13r, *Bal.* 6106.
Aremonia agrimonoides (L.) DC. s.l. – 35k, *Bal.* 5971; 32g, *Bal.* 6856.
 **Crataegus heldreichii* Boiss. – 1c, *Bal.* 6478; 7a, *Bal.* 6690.
Crataegus monogyna Jacq. – 29a, *Bal.* 5658; 32g, *Bal.* 5717; 46g, *Bal.* 5835; 13b, *Bal. s.n.*; 1c, *Bal.* 6479; 17a, *Bal.* 6667; 5a, *Bal.* 6749.
Malus domestica Borkh. – (Friedrichsthal 1838 as “*Pyrus malus*”).
Potentilla micrantha Ramond ex DC. – 2d, *Bal.* 6538; 29h, *Bal.* 6931.
 **Potentilla reptans* L. – 3r, *Bal.* 7286.
Prunus mahaleb L. – 30g, *Bal.* 5983; 7f, *Bal.* 6712.
 **Pyrus spinosa* Forssk. – 17,18,j, *Bal. obs.*; 46n, *Bal. obs.*; 39a, *Bal. obs.*
 **Rosa agrestis* Savi – 2d, *Bal.* 5751; 1c, *Bal.* 6477; 7r, *Bal.* 6691.

- **Rosa canina* L. – 29r, *Bal.* 5633; 45g, *Bal.* 6385; 33r, *Bal.* 6896.
 **Rubus sanctus* Schreb. – 39q, *Bal.* 5757.
 **Sanguisorba minor* subsp. *muricata* (Spach) Briq. – 31u, *Bal.* 5713; 36u, *Bal.* 5719; 18j, *Bal.* 6634; 7r, *Bal.* 6711; 23s, *Bal.* 6795; 24a, *Bal.* 6824; 44q, *Bal.* 6955; 2d, *Bal.* 7231.
 **Sorbus domestica* L. – 29g, *Bal.* 7960.

RUBIACEAE

- Asperula arvensis* L. – (Halácsy 1912:45).
Crucianella angustifolia L. – 1c, *Bal.* 6469; 6a, *Bal.* 6777; 24a, *Bal.* 6816.
 **Cruciata laevipes* Opiz – 30q, *Bal.* 6002.
 **Cruciata pedemontana* (Bellardi) Ehrend. – 1c, *Bal.* 6470; 3e, *Bal.* 6522.
 **Galium aparine* L. – 46n, *Bal.* 6361; 3e, *Bal.* 7243.
Galium capitatum Bory & Chaub. – (Chaubard & Bory 1838).
 **Galium intricatum* Margot & Reut. – 23s, *Bal.* 6802; 12b, *Bal.* 7150; 2d, *Bal.* 7230; 3e, *Bal.* 7262.
 **Galium peloponnesiacum* Ehrend. & Krendl – 45q, *Bal.* 6398; 23s, *Bal.* 6801; 41a, *Bal.* 6937; 10b, *Bal.* 7123; 1c, *Bal.* 7209; 2d, *Bal.* 7238; 3b, *Bal.* 7291.
Galium speciosum Krendl – (Giannopoulos & al. 2011b).
 **Galium spurium* L. – 14t, *Bal.* 6055.
 **Galium verum* L. subsp. *verum* – 3e, *Bal.* 7270.
Rubia peregrina L. – 44g, *Bal.* 6969.
 **Sherardia arvensis* L. – 40t, *Bal. s.n.*; 46n, *Bal. s.n.*; 1c, *Bal.* 6468; 2d, *Bal. s.n.*; 18j, *Bal. s.n.*

SALICACEAE

- Populus nigra* L. subsp. *nigra* – (Giannopoulos & al. 2011b).
 **Salix alba* L. – 7f, *Bal.* 6702.

SAXIFRAGACEAE

- **Saxifraga carpetana* subsp. *graeca* (Boiss. & Heldr.) D.A. Webb – 2d, *Bal.* 5891; 32g, *Bal.* 5986.
Saxifraga rotundifolia subsp. *chrysosplenifolia* (Boiss.) D.A. Webb – 35k, *Bal.* 5965; 21s, *Bal.* 6035; 13b, *Bal.* 6109; 5i, *Bal.* 6766.
Saxifraga tridactylites L. – 22u, *Bal.* 6015.

SCROPHULARIACEAE

- *[*Antirrhinum majus* L. *s.l.*] – 22u, *Bal. obs.*; 19u, *Bal. obs.*; 29u, *Bal. obs.*
Bellardia trixago (L.) All. – 18j, *Bal.* 6617.
 [*Cymbalaria muralis* G. Gaertn., B. Mey. & Schreb. subsp. *muralis*] – 36u, *Bal.* 2199.
 **Digitalis laevigata* subsp. *graeca* (Ivanina) H. Werner – 29r, *Bal.* 5628; 30q, *Bal.* 5715; 7r, *Bal.* 6699; 32s, *Bal.* 6836.
 **Kickxia elatine* subsp. *crinita* (Mabille) Greuter – 29t, *Bal.* 5699; 36t, *Bal.* 5724.
 **Linaria peloponnesiaca* Boiss. & Heldr. var. *peloponnesiaca* – 16t, *Bal.* 6682; 7r, *Bal. s.n.*; 5a, *Bal. s.n.*; 12b, *Bal. s.n.*; 2d, *Bal.* 7235.
 **Misopates orontium* (L.) Raf. – 31t, *Bal.* 5710.
Odontites vernus (Bellardi) Dumort. – 29r, *Bal.* 5623.

- **Parentucellia latifolia* (L.) Caruel – 46q, *Bal.* 6335; 2d, *Bal.* 6500; 3e, *Bal.* s.n.
 **Scrophularia canina* subsp. *bicolor* (Sm.) Greuter – 29r, *Bal.* 5636; 45q, *Bal.* 6386; 2r, *Bal.* 6502.
 **Scrophularia peregrina* L. – 36u, *Bal.* 7947.
 **Scrophularia scopolii* Hoppe – 5a, *Bal.* 6736.
Verbascum daenzeri (Fauché & Chaub.) Kuntze – 32q, *Bal.* 5590; 46q, *Bal.* 5857; 21s, *Bal.* 6020; 30q, *Bal.* 6867.
 **Verbascum macrurum* Ten. – 36q, *Bal.* 2209; 16t, *Bal. obs.*; 8q, *Bal. obs.*; 37q, *Bal. obs.*; 28q, *Bal. obs.*
 **Veronica anagallis-aquatica* L. – 29m, *Bal.* 5661; 36m, *Bal.* 5958; 2r, *Bal.* 6533.
 **Veronica arvensis* L. – 46q, *Bal.* 5853; 13r, *Bal.* 6071; 46n, *Bal.* 6370.
Veronica chamaedrys L. subsp. *chamaedryoides* (Bory & Chaub.) M.A. Fisch. – 46q, *Bal.* 5870; 1c, *Bal.* 6452; 2r, *Bal.* 6548; 5a, *Bal.* 6735; 32g, *Bal.* 6852.
 **Veronica cymbalaria* Bodard – 40u, *Bal.* 5942; 27u, *Bal.* 5980; 22u, *Bal.* s.n.
 **Veronica glauca* subsp. *chaubardii* (Boiss. & Reut.) Maire & Petitm. – 30q, *Bal.* 6010; 46n, *Bal.* 6369; 1c, *Bal.* 6453; 2d, *Bal.* 6501.
 *[*Veronica persica* Poir.] – 46o, *Bal.* 5776.
 **Veronica triloba* (Opiz) Wiesb. – 8p, *Bal.* 5901; 23s, *Bal.* 6797.

SIMAROUBACEAE

- *[*Ailanthus altissima* (Mill.) Swingle] – 21q, *Bal. obs.*

SOLANACEAE

- Physalis ixocarpa* Hornem. – (Giannopoulos & al. 2011b).
 **Solanum nigrum* L. subsp. *nigrum* – 36t, *Bal.* 2198.

THELIGONACEAE

- **Theligonum cynocrambe* L. – 40u, *Bal.* 5941.

UMBELLIFERAE

- Anthriscus nemorosus* (M. Bieb.) Spreng. – 22t, *Bal.* 5989; 29t, *Bal.* 5691; 5i, *Bal.* 6751.
 **Anthriscus tenerrima* Boiss. & Spruner – 21q, *Bal.* 6030.
 **Apium nodiflorum* (L.) Lag. – 29m, *Bal.* 5667.
 **Bunium ferulaceum* Sm. – 18j, *Bal.* 6628.
Bupleurum glumaceum Sm. – 18j, *Bal.* 6630; 17j, *Bal.* 6654; 10b, *Bal.* 7176; 1c, *Bal.* 7212; 3e, *Bal.* 7272.
 **Carum multiflorum* (Sm.) Boiss. – 5i, *Bal.* 6753; 3b, *Bal.* 7290.
 **Myrrhoides nodosa* (L.) Cannon – 29o, *Bal.* 5690; 32g, *Bal.* 6850.
Conium maculatum L. – (Giannopoulos & al. 2011a).
 **Daucus carota* cfr. subsp. *maximus* (Desf.) Ball – 29r, *Bal.* 5629.
 **Daucus guttatus* Sm. subsp. *guttatus* – 46n, *Bal.* 6360; 44q, *Bal.* 7376.
 **Eryngium amethystinum* L. – 2d, *Bal.* 5752; 1c, *Bal.* s.n.
 **Eryngium campestre* L. – 29q, *Bal. phot.*; 8q, *Bal. obs.*; 10o, *Bal. obs.*; 37q, *Bal. obs.*
 **Eryngium creticum* Lam. – 46n, *Bal.* 7096.
 **Foeniculum vulgare* Mill. s. l. – 36t, *Bal.* 2196; 45q, *Bal.* s.n.

- **Geocaryum capillifolium* (Guss.) Coss. – 32g, *Bal.* 6849.
 **Lagoecia cuminoides* L. – 18j, *Bal.* 6627.
 **Malabaila aurea* (Sm.) Boiss. – 29t, *Bal.* 5687; 45q, *Bal.* 6389; 16t, *Bal.* 6675; 10o, *Bal.* 7178.
 **Malabaila involucrata* Boiss. & Spruner – 2d, *Bal.* 6497; 5a, *Bal.* 6750; 23q, *Bal.* 6783; 3b, *Bal.* 7293.
 **Opopanax hispidus* (Friv.) Griseb. – 29r, *Bal.* 5639; 18j, *Bal.* 6639; 30q, *Bal.* 6874; 40q, *Bal. obs.*; 36t, *Bal. obs.*
 **Orlaya daucooides* (L.) Greuter – 29r, *Bal.* 5700; 46q, *Bal.* 6341; 7r, *Bal.* 6684; 30q, *Bal.* 6863; 10b, *Bal.* 7169; 34r, *Bal.* 7344.
 **Pimpinella peregrina* L. – 18j, *Bal.* 6629; 32q, *Bal.* 7357.
Scandix australis subsp. *grandiflora* (L.) Thell. – 1c, *Bal.* 6480; 5a, *Bal.* 6752.
Scandix pecten-veneris L. subsp. *pecten-veneris* – 13r, *Bal.* 6076.
 **Smyrniium perfoliatum* L. s. l. – 7r, *Bal.* 6697.
 **Tordylium apulum* L. – 15q, *Bal. s.n.*; 14t, *Bal.* 6051; 46n, *Bal. s.n.*; 18j, *Bal. s.n.*; 5a, *Bal.* 6754.
 **Tordylium maximum* L. – 44m, *Bal.* 7380.
 **Tordylium officinale* L. – 11q, *Bal.* 7116; 10o, *Bal.* 7161.
Torilis arvensis (Huds.) Link subsp. *arvensis* – 44m, *Bal.* 7381.
Torilis arvensis subsp. *purpurea* (Ten.) Hayek – 17j, *Bal.* 6659; 10o, *Bal.* 7179; 3e, *Bal.* 7244; 34r, *Bal.* 7352.
 **Torilis leptophylla* (L.) Rchb. f. – 3r, *Bal.* 7285.
 **Torilis nodosa* (L.) Gaertn. – 46n, *Bal.* 6359.

URTICACEAE

- **Parietaria judaica* L. – 22u, *Bal. s.n.*; 36t, *Bal. obs.*
 ?*Parietaria officinalis* L. – (Chaubard & Bory 1838).
 According to Carlström (1997) literature records from S parts of mainland Greece are probably incorrect. For this reason the taxon is not included in the mountain's flora.
 **Urtica dioica* L. – 29o, *Bal.* 5672; 31k, *Bal.* 5701; 20t, *Bal. obs.*

VALERIANACEAE

- **Centranthus ruber* subsp. *sibthorpii* (Heldr. & Sart. ex Boiss.) Hayek – 36u, *Bal.* 6935.
 **Valeriana italica* Lam. – 10b, *Bal. s.n.*; 21s, *Bal.* 6028; 13b, *Bal.* 6107; 7r, *Bal.* 6705.
 **Valeriana tuberosa* L. – 1c, *Bal.* 6466.
 **Valerianella carinata* Loisel. – 46q, *Bal.* 5777.
 **Valerianella costata* (Steven) Betcke – 13r, *Bal.* 6086.
 **Valerianella discoidea* (L.) Loisel. – 21q, *Bal.* 6034; 18j, *Bal.* 6625.
Valerianella echinata (L.) DC. – 21q, *Bal.* 6024.
 **Valerianella muricata* (Steven ex Roem. & Schult.) W.H. Baxter – 18j, *Bal.* 6626.
 **Valerianella obtusiloba* Boiss. – 6r, *Bal.* 6771.
 **Valerianella turgida* (Steven) Betcke – 46n, *Bal.* 5866; 1c, *Bal.* 6467; 3e, *Bal.* 6521; 5r, *Bal.* 6716; 5a, *Bal.* 6747.

VERBENACEAE

- **Verbena officinalis* L. – 36t, *Bal.* 2194; 29t, *Bal. obs.*; 31t, *Bal. obs.*

VIOLACEAE

Viola arvensis Murray – (Friedrichsthal 1838).

Viola hirta L. – (Friedrichsthal 1838).

Viola odorata L. – 2d, Bal. 5888.

**Viola phitosiana* Erben – 8p, Bal. 5893; 10b, Bal. 5911; 11s, Bal. 5923; 36s, Bal. 5946; 30q, Bal. 6005.

MONOCOTYLEDONES

AMARYLLIDACEAE

Galanthus reginae-olgae subsp. *vernalis* Kamari – 22l, Bal. 2246. – The nomenclature of this taxon follows Kamari (1982).

Sternbergia sicula Tineo ex Guss. – 1c, Bal. 2177.

ARACEAE

**Arum italicum* Mill. subsp. *italicum* – 46o, Bal. 6383.

**Arum maculatum* L. – 5a, Bal. 6722.

Biarum tenuifolium (L.) Schott – (Chaubard & Bory 1838 as “*Arum tenuifolium*”).

CYPERACEAE

**Carex distachya* Desf. – 32g, Bal. 6835; 33g, Bal. 6904; 44g, Bal. 6965.

**Carex distans* L. – 44m, Bal. 7379.

**Carex flacca* subsp. *serrulata* (Biv.) Greuter – 18j, Bal. 6631; 12b, Bal. 7132.

**Carex pendula* Huds. – 29k, Bal. s.n.

**Cyperus fuscus* L. – 36m, Bal. 5733.

**Cyperus longus* L. – 46q, Bal. 7092; 10m, Bal. 7190.

**Cyperus flavescens* L. – 29m, Bal. 5666.

**Scirpoides holoschoenus* (L.) Soják – 44q, Bal. 7378.

DIOSCOREACEAE

**Tamus communis* L. s.l. – 43a, Bal. s.n.

GRAMINEAE

**Aegilops biuncialis* Vis. – 18j, Bal. 6592a.

**Aegilops caudata* L. – 39q, Bal. 7303.

**Aegilops comosa* subsp. *comosa* – 18j, Bal. 6591; 17j, Bal. 6660; 10b, Bal. 7168; 1c, Bal. 7198; 3r, Bal. 7281.

**Aegilops geniculata* Roth – 9q, Bal. 6556.

**Aegilops neglecta* Req. ex Bertol. – 2d, Bal. 6507; 18j, Bal. 6592b; 33r, Bal. 6883; 10b, Bal. 7163; 3r, Bal. 7282; 34r, Bal. 7346.

**Aegilops triuncialis* L. – 33r, Bal. 6884; 10o, Bal. 7170; 3r, Bal. 7280; 34r, Bal. 7319.

**Aira elegantissima* subsp. *ambigua* (Arcang.) Doğan – 3e, Bal. 7273.

**Aira elegantissima* Schur subsp. *elegantissima* – 3e, Bal. 6527; 18j, Bal. 6585; 17j, Bal. 6662.

- **Alopecurus rendlei* Eig – 40m, *Bal. s.n.*; 36m, *Bal. 5956*.
- **Anisantha diandra* (Roth) Tzvelev – 30q, *Bal. 6861*; 29r, *Bal. 6921*.
- **Anisantha madritensis* (L.) Nevski – 33r, *Bal. 6916*; 11q, *Bal. 7121*.
- **Anisantha sterilis* (L.) Nevski – 2d, *Bal. 6506*; 2r, *Bal. 6535*; 7r, *Bal. 6695a*; 5a, *Bal. 6726*; 30q, *Bal. 6862*; 33r, *Bal. 6910*.
- **Anisantha tectorum* (L.) Nevski – 2d, *Bal. 6511*.
- **Anthoxanthum odoratum* L. subsp. *odoratum* – 5a, *Bal. 6729*; 32g, *Bal. s.n.*; 33g, *Bal. 6907*.
- **Avena barbata* Pott ex Link subsp. *barbata* – 30q, *Bal. 6860*; 29r, *Bal. 6920*.
- **Avena sterilis* subsp. *ludoviciana* (Durieu) Gillet & Magne – 18j, *Bal. 6593*; 17j, *Bal. 6665*; 3r, *Bal. 7288*.
- **Brachypodium retusum* (Pers.) P. Beauv. – 18j, *Bal. 6587*; 12b, *Bal. 7141*; 34f, *Bal. 7307*.
- **Brachypodium sylvaticum* (Huds.) P. Beauv. – 29h, *Bal. 5626*; 45g, *Bal. 7111*; 10o, *Bal. 7167*; 34f, *Bal. 7331*.
- **Briza maxima* L. – 18j, *Bal. 6588*; 32g, *Bal. s.n.*
- **Bromus alopecuroides* Poir. – 33r, *Bal. 6885*.
- **Bromus hordeaceus* subsp. *mediterraneus* H. Scholz – 15q, *Bal. 6041*; 3e, *Bal. 6525b*; 32q, *Bal. 6858*; 29r, *Bal. 6922*; 1c, *Bal. 7217*; 2r, *Bal. 7241*.
- **Bromus intermedius* Guss. – 1c, *Bal. 6416*; 3e, *Bal. 6525a*; 2d, *Bal. 6542*; 5a, *Bal. 6730*; 31t, *Bal. 6881*; 33r, *Bal. 6909*.
- **Bromus scoparius* L. – 9q, *Bal. 6566*.
- **Bromus squarrosus* L. – 10q, *Bal. 7124*.
- **Catapodium rigidum* (L.) C.E. Hubb. subsp. *rigidum* – 1c, *Bal. s.n.*; 9q, *Bal. 6557*; 18j, *Bal. 6586*; 7r, *Bal. 6695b*.
- **Cynodon dactylon* (L.) Pers. – 46n, *Bal. s.n.*; 12r, *Bal. s.n.*; 29t, *Bal. obs.*; 31t, *Bal. obs.*
- **Cynosurus echinatus* L. – 29r, *Bal. 5607*; 45q, *Bal. s.n.*; 1c, *Bal. s.n.*; 2d, *Bal. s.n.*; 18j, *Bal. s.n.*; 33g, *Bal. 6906a*.
- **Cynosurus effusus* Link – 2d, *Bal. 6536*; 5a, *Bal. 6732*; 23q, *Bal. 6785*; 33g, *Bal. 6906b*.
- **Dactylis glomerata* subsp. *hispanica* (Roth) Nynan – 2d, *Bal. 6510*; 18j, *Bal. s.n.*; 17j, *Bal. s.n.*; 5a, *Bal. 6727*; 32g, *Bal. s.n.*
- **Dasypyrum villosum* (L.) P. Candargy – 40t, *Bal. s.n.*; 24q, *Bal. obs.*; 30q, *Bal. obs.*; 29t, *Bal. obs.*
- **Digitaria sanguinalis* (L.) Scop. – 29m, *Bal. 5647*.
- **Echinaria capitata* (L.) Desf. – 18j, *Bal. 6632*.
- **Echinochloa crus-galli* (L.) P. Beauv. – 29t, *Bal. 5695*; 36t, *Bal. obs.*
- **Festuca jeanpertia* (St.-Yves) Markgr. *s.l.* – 1c, *Bal. 6415*; 2d, *Bal. 6509*; 5a, *Bal. 6731*; 23a, *Bal. s.n.*; 12b, *Bal. s.n.*; 3e, *Bal. 7269*.
- **Gaudinia fragilis* (L.) P. Beauv. – 18j, *Bal. 6589*; 17j, *Bal. 6663*; 33r, *Bal. 6911*; 46n, *Bal. 7100*; 10o, *Bal. 7174*.
- **Helictotrichon agropyroides* (Boiss.) Henrard – 1c, *Bal. 6418*; 24a, *Bal. 6813*; 12b, *Bal. 7140*; 2d, *Bal. 7239*; 34r, *Bal. 7306*.
- **Helictotrichon convolutum* (C. Presl) Henrard subsp. *convolutum* – 1c, *Bal. 6417*; 23a, *Bal. s.n.*; 12b, *Bal. s.n.*
- **Holcus lanatus* L. – 29k, *Bal. 5646*.

- **Hordeum bulbosum* L. – 17j, *Bal.* 6661; 10o, *Bal. s.n.*; 31t, *Bal. obs.*; 43q, *Bal. obs.*
 **Hordeum leporinum* Link – 9q, *Bal.* 6568; 29r, *Bal.* 6918.
 **Hyparrhenia hirta* (L.) Stapf – 18j, *Bal.* 6590.
 **Koeleria lobata* (M. Bieb.) Roem. & Schult. – 1c, *Bal.* 6421; 2d, *Bal.* 6508; 3e, *Bal.* 7268.
 **Lolium perenne* L. – 29r, *Bal.* 6919; 3r, *Bal.* 7284.
 **Lolium rigidum* Gaudin subsp. *rigidum* – 23s, *Bal.* 6796; 33r, *Bal.* 6908; 10o, *Bal.* 7171; 34r, *Bal.* 7321.
 **Melica ciliata* L. s.l. – 35a, *Bal.* 6934; 12b, *Bal.* 7142; 3b, *Bal.* 7299.
Melica uniflora Retz. – 43g, *Bal.* 6950.
 **Milium vernale* M. Bieb. – 5a, *Bal.* 6728.
 **Ochlopoa annua* (L.) H. Scholz – 44q, *Bal.* 7385.
 **Phalaris coerulescens* Desf. – 44o, *Bal.* 7372.
Phleum echinatum Host – (Chaubard & Bory 1838).
 **Phleum montanum* K.Koch – 1c, *Bal.* 6420; 2d, *Bal.* 7233; 3e, *Bal. s.n.*
 **Phleum subulatum* (Savi) Asch. & Graebn. subsp. *subulatum* – 10o, *Bal.* 7173.
 **Phragmites australis* (Cav.) Trin. ex Steud. – 46q, *Bal.* 5856.
Piptatherum miliaceum (L.) Coss. s. l. – 15q, *Bal. obs.*
 **Piptatherum miliaceum* subsp. *thomasi* (Duby) Freitag – 37q, *Bal.* 7369.
 **Poa bulbosa* L. s. l. – 40t, *Bal.* 5940; 13r, *Bal.* 6084; 1c, *Bal.* 6419; 2d, *Bal. s.n.*; 5a, *Bal.* 6734; 23a, *Bal. s.n.*; 33r, *Bal.* 6913.
 **Poa timoleontis* Heldr. ex Boiss. – 2d, *Bal.* 6512.
 **Poa trivialis* subsp. *sylvicola* (Guss.) H. Lindb. – 23q, *Bal.* 6786; 32g, *Bal.* 6859; 33g, *Bal.* 6914; 44g, *Bal.* 6964; 2r, *Bal.* 7240.
 **Polygonum monspeliensis* (L.) Desf. – 46m, *Bal.* 6343.
 **Polygonum viridis* (Gouan) Breistr. – 29m, *Bal.* 5660; 10m, *Bal.* 7191; 36m, *Bal.* 7365.
 **Psilurus incurvus* (Gouan) Schinz & Thell. – 46q, *Bal.* 6381.
Rostraria cristata (L.) Tzvelev – 46q, *Bal.* 6380.
 **Schedonorus arundinaceus* (Schreb.) Dumort. s. l. – 29k, *Bal.* 6933.
 *[*Setaria adhaerens* (Forssk.) Chiov.] – 29t, *Bal.* 5612.
 **Stipa bromoides* (L.) Dörfl. – 28q, *Bal.* 5747; 10b, *Bal.* 7175; 34r, *Bal.* 7310.
 **Stipa holosericea* Trin. – 23a, *Bal.* 6806; 1c, *Bal.* 7195.
 **Stipa pennata* subsp. *pulcherrima* (K. Koch) Freitag – 3b, *Bal.* 7295.
 **Trachynia distachya* (L.) Link – 10o, *Bal.* 7172.
 **Vulpia ciliata* Dumort. subsp. *ciliata* – 2d, *Bal.* 6513; 3e, *Bal.* 6528; 2s, *Bal.* 6540; 33r, *Bal.* 6912a.
 **Vulpia myuros* (L.) C. C. Gmel. – 9q, *Bal.* 6555; 17j, *Bal.* 6664; 7r, *Bal.* 6696; 33r, *Bal.* 6882; 33r, *Bal.* 6912b; 29r, *Bal.* 6917; 10b, *Bal.* 7166.

IRIDACEAE

- Crocus biflorus* subsp. *melantherus* B. Mathew – (Giannopoulos & al. 2012a).
Crocus cancellatus subsp. *mazziaricus* (Herb.) B. Mathew – 1c,2d, *Bal.* 2176.
Crocus laevigatus Bory & Chaub. – (Giannopoulos & al. 2012a).
Crocus olivieri J. Gay subsp. *olivieri* – 1c,2d, *Bal.* 2241.
 **Crocus sieberi* subsp. *sublimis* (Herb.) B. Mathew – 1c,2d, *Bal.* 2240.

**Gladiolus italicus* Mill. – 18j, *Bal.* 6646; 29r, *Bal.* 6929.

**Iris unguicularis* subsp. *carica* (W. Schultz) A.P. Davis & Jury – 35q, *Bal.* 5967; 21q, *Bal. obs.*

JUNCACEAE

**Juncus articulatus* L. – 36m, *Bal.* 2186; 29m, *Bal. obs.*

**Juncus bufonius* L. – 36m, *Bal.* 7363.

**Juncus inflexus* L. – 36m, *Bal.* 2185; 10m, *Bal.* 7192.

Luzula forsteri (Sm.) DC. – 32g, *Bal.* 5987.

LILIACEAE

**Allium amethystinum* Tausch. – 44q, *Bal.* 7383.

Allium callimischon Link – (Giannopoulos & al. 2012a).

**Allium chamaespathum* Boiss. – 29o, *Bal.* 5682.

Allium guttatum subsp. *sardoum* (Moris) Stearn – 34r, *Bal.* 7320.

**Allium subhirsutum* L. – 12b, *Bal.* 7144; 44q, *Bal. obs.*

**Asparagus acutifolius* L. – 12b, *Bal.* 7151.

Asparagus verticillatus L. – (Friedrichsthal 1838).

**Asphodelus ramosus* L. – 22q, *Bal.* 6110.

**Bellevalia dubia* subsp. *boissieri* (Freyn) Feinbrun – 10b, *Bal.* 5910; 23q, *Bal. s.n.*; 21a, *Bal.* 6031; 13b, *Bal.* 6101. – Nomenclature of this taxon is according Feinbrun (1940).

**Colchicum bivonae* Guss. – 37a, *Bal.* 2178.

**Gagea graeca* (L.) A. Terracc. – 13b, *Bal.* 6097.

Gagea sp. – 1d, *Bal.* 5889.

Lilium chalcedonicum L. – (Giannopoulos & al. 2011a).

Muscari comosum (L.) Mill. – 2d, *Bal.* 6496; 18j, *Bal.* 6645; 17j, *Bal.* 6658; 24a, *Bal. s.n.*; 32g, *Bal. s.n.*

Muscari commutatum Guss. – 13b, *Bal.* 6100.

**Muscari neglectum* Guss. ex Ten. – 10b, *Bal.* 5908; 35a, *Bal.* 5976; 1c, *Bal.* 6485; 5a, *Bal. s.n.*

**Ornithogalum collinum* Guss. – 10b, *Bal.* 5909; 13r, *Bal.* 6078.

**Ornithogalum montanum* Cirillo – 1c, *Bal.* 6484; 7a, *Bal.* 6692; 3b, *Bal.* 7296.

Ornithogalum refractum Kit. Ex Schltdl. – (Friedrichsthal 1838).

Ornithogalum sibthorpii Greuter – 1c,2d, *Bal.* 2242.

**Prospero autumnale* (L.) Salisb. – 35a, *Bal.* 2210. – The nomenclature of this taxon follows Speta (1982).

**Ruscus aculeatus* L. – 29a, *Bal.* 5620; 31k, *Bal. obs.*

Scilla messeniaca Boiss. – (Halácsy 1904:237 based on reports of “*Scilla amoena*” by Chaubard & Bory 1838 and Friedrichsthal 1838).

**Smilax aspera* L. – 13b, *Bal. obs.*

**Urginea maritima* (L.) Baker – 18j, *Bal. phot.*; 15a, *Bal. obs.*

ORCHIDACEAE

**Anacamptis pyramidalis* (L.) Rich. – 18j, *Bal.* 6644; 30q, *Bal. obs.*

**Cephalanthera longifolia* (L.) Fritsch – 29g, *Bal.* 7958.

- **Dactylorhiza romana* (Sebast.) Soó – 32g, *Bal.* 5985.
 **Epipactis helleborine* (L.) Crantz s. l. – 34r, *Bal.* 7336.
 **Himantoglossum robertianum* (Loisel.) P. Delforge – 46q, *Bal.* 5837; 13r, *Bal.* 6083.
 **Ophrys lutea* subsp. *galilaea* (H. Fleischm. & Bornm.) Soó – 21q, *Bal.* 6037; 13r, *Bal.* 6082.
 **Ophrys scolopax* Cav. subsp. *scolopax* – 3b, *Bal.* 7300.
 **Ophrys sphegodes* Mill. subsp. *spruneri* (Nyman) E. Nelson – 13r, *Bal.* 6080.
 **Ophrys umbilicata* Desf. subsp. *umbilicata* – 13r, *Bal.* 6081.
Orchis boryi Rchb. f. – 44g, *Bal.* 6959.
 **Orchis mascula* (L.) L. s. l. – 4d, *Bal.* 7968.
 **Orchis quadripunctata* Cirillo ex Ten. – 23a, *Bal.* 5993; 13b, *Bal.* 6103.
Orchis simia Lam. – 46q, *Bal.* 5836.

TYPHACEAE

- **Typha latifolia* L. – 29k, *Bal.* 5650.

Vegetation

The most important factor that had shaped the physiognomy of the vegetation of Likeo is man, mainly because of historical reasons mentioned in the introduction. As a consequence a significant part of the mountain is now covered by semi-natural vegetation units that represent a stage of succession of abandoned stony fields reverting to natural vegetation. According to information from the local inhabitants, important vegetation units such as *Pinus nigra* and *Castanea sativa* forests, we encounter nowadays, have been planted by man. However, these artificial forests have been fully integrated to the natural ecosystems of the area.

The most extensive vegetation type recognized in the investigated area is *Quercus coccifera* dominated scrub. It is developed all over the mountain in the whole altitudinal range (400-1400 m) and on various types of rocks but mainly on limestone and up to 1000-1200 m. Frequent but of less importance evergreen species is *Phillyrea latifolia*. The physiognomy of these scrubs is also shaped by a significant number of deciduous species such as *Fraxinus ornus*, *Quercus pubescens*, *Crataegus monogyna*, *Acer* spp. while *Pistacia terebinthus* is mainly restricted to the eastern hills of the mountain. Sporadically, we find individuals of *Cercis siliquastrum*. *Hippocrepis emerus* subsp. *emeroides* is also a common constituent of this type of vegetation particularly in the northern parts. Frequently, these formations are dense and practically impenetrable forming typical macchie. On the other hand degraded forms resembling garigue exist all over the mountain especially near settlements, in abandoned stony fields and in overgrazed areas.

Wherever limestone is interrupted by hornstones the physiognomy of this scrub is altered. Here, the deeper soil favors the growth of taller communities and the expansion of deciduous species against sclerophyllous evergreen elements. Consequently, transitional zones of vegetation exist and the scrub is often transformed to deciduous forest as in the case of hornstones around Neda village.

Northern and northeastern parts of the mountain mainly from Strogilo to Ano Karies were affected by the wildfire of 2007 that swept huge parts of western Peloponnisos. Now, they are covered by low and sparse *Quercus coccifera* scrub. Here, *Brachypodium retusum* presents the optimum of its growth and covers most of the free space between the shrubs. The inclination in this area is often high and the exposed limestone rocks declare the subsequent erosion of the soil. These formations represent a stage of regeneration of the main type of vegetation described previously.

Patches with meadows and sparse woody vegetation composed mainly of *Pyrus spinosa* exist all over the zone between Rovia and Strogilo. They possibly cover abandoned stony fields recovering from the vast fire of 2007. They support a diverse flora of grasses, geophytes and various annuals.

Isolated stands of *Quercus ilex* reflect the wetter bioclimatic conditions that prevail locally near streams and ravines in the upper part of the N-facing slopes close to Rovia.

Pinus nigra forest covers a relatively large area south of Kotili and ENE of the summit Diaforti. This artificial forest has been planted about 50 years ago as a part of large scale reforestation that took place at this period in all the country mainly with intension to prevent the erosion of the soils around inhabited areas. It is developed almost exclusively on hornstones and deep soils in an altitudinal zone of 900-1200 m of N-facing slopes of the mountain. The forest is dense and old enough, consequently the underfloor species poor. *Pinus nigra* has also been planted in a smaller scale along the ridge W of the summit Diaforti on flysch, where it forms small woods in contact with *Quercus frainetto* forest.

The upper part of the mountain and more specifically the slopes of the highest summits Profitis Ilias and Diaforti (1200-1400 m) are covered by meadows subjected to seasonal grazing. The most prominent woody elements *Quercus coccifera* and *Juniperus oxycedrus* subsp. *oxycedrus* are restricted to a few scattered individuals. The substrate is mainly limestone, but includes also zones with hornstones and flysch. A significant part of the surface is covered by gravel or small to medium sized stones and in a smaller degree from rocky outcrops. Grass vegetation is dominated by *Festuca jeanpertii* s.l. and *Phleum montanum*, followed by *Poa bulbosa*, *Koeleria lobata*, *Dactylis glomerata* s.l., *Helictotrichon convolutum* s.l. and *Helictotrichon agropyroides*. A number of taxa are characteristic of this zone of the mountain, the most representative being *Thlaspi graecum*, *Eryngium amethystinum*, *Armeria canescens*, *Erysimum cephalonicum*, *Anthemis cretica* subsp. *tenuiloba*, *Thymus longicaulis* subsp. *chaubardii*, *Astragalus depressus*. Thick populations of common taxa such as *Scandix australis* subsp. *grandiflora*, *Crepis hellenica* subsp. *hellenica*, *Medicago falcata* and geophytes such as *Euphorbia apios* and *Ornithogalum montanum* complete the physiognomy of the meadows. Small dolines between the two main peaks support a very rich herb layer similar to the one of the stony meadows described above. Some of the characteristic species here are *Lathyrus digitatus* and *Trifolium strictum*. Dolines deeper soil allows a continuous cover of vegetation not interrupted by stones or rocks.

Flysch supports very distinctive types of vegetation, *Quercus frainetto* and secondly *Castanea sativa* forests. In zones of contact we find all the intermediate forms. These units are practicably absent from nearby limestone areas. Thus their distribution pattern follows the distribution pattern of flysch. The largest *Quercus frainetto* forest occupies a large flysch formation SW, W and NNW of Agios Sostis village in an altitudinal range of 800-1100 m. The forest is old enough and its structure dense. The height of *Quercus frainetto* trees

ranges from 10 to 14 m. Important *Quercus frainetto* forests exist also SSE of Likeo village, around Kastanochori and Ampeliona in an altitudinal zone of 400-800 m. *Castanea sativa* is the second important element of the tree floor. Its presence though is restricted in areas which are in contact with *Castanea sativa* woods. It seems that *Castanea sativa* does not differentiate the floristic composition of the underfloor. Moreover, pure stands of *Castanea sativa* cover a small percentage of the total flysch. Woody elements of the underfloor comprise scattered individuals of *Quercus coccifera* and young plants of *Quercus frainetto* supplemented locally in Agios Sostis by *Cytisus villosus*. *Erica arborea* and *Cistus salvifolius* are restricted to the forest SSE of Likeo village. *Cistus creticus* s.l. is the only phryganean taxon with high constancy in all the *Quercus frainetto* forests of the investigated area. The fern *Pteridium aquilinum* presents its optimum growth and forms characteristic patches wherever the conditions are appropriate. The most representative characteristic taxa of the herb layer are the following: *Lathyrus laxiflorus*, *Cyclamen hederifolium*, *Achillea ligustica*, *Campanula spatulata* subsp. *spruneriana*, *Silene italica* subsp. *peloponnesiaca*, *Luzula forsteri*, *Hieracium* spp. Among the grasses worth mentioned are *Poa trivialis* subsp. *sylvicola*, *Anthoxanthum odoratum*, *Briza maxima* and *Dactylis glomerata* s.l. A species with small populations but with high constancy is *Campanula stenosphon*. Thus, it can be considered as associated with this type of habitat at least in the investigated area. The following taxa such as *Geranium peloponnesiacum*, *Geranium asphodeloides*, *Trifolium pignanii*, *Agrimonia eupatoria* s.l. and *Aremonia agrimonoides* s.l. have smaller constancy and small populations but their distribution in the mountain is confined almost to the above described type of vegetation. The endemic *Verbascum daenzeri* was exclusively found on the margins of *Quercus frainetto* forest mainly on road cuttings and it can be considered as characteristic of these habitats.

Discussion

The vascular flora of Mt Likeo consists of 701 specific and infraspecific taxa of which 543 (77,5 %) are new records for the investigated area. *Trifolium strictum* seems to be new for Peloponnisos. The richest in number of taxa families are: *Compositae* (91), *Leguminosae* (89) and *Gramineae* (70).

Greek endemics comprise 41 taxa (5,8 %). Nine of them are regional endemics of Peloponnisos. Among the latter category there are some taxa with a distribution confined to southern Peloponnisos, such as *Silene integripetala* subsp. *integripetala*, *Cerastium pedunculare*, *Campanula stenosphon*, *Centaurea laconica* subsp. *laconica*. The finding of some of the Greek endemics, such as *Arenaria guicciardii*, *Cota brachmannii*, *Thlaspi graecum*, *Alkanna methanaea*, *Campanula topaliana* subsp. *cordifolia*, *Sedum laconicum* subsp. *laconicum*, is interesting from a chorological point of view. The Balkan endemic group is represented by a lower number of taxa (23). It seems that the influence of Balkan species is weak, since the area belongs to the southern part of the Balkan Peninsula and has a lower altitude when compared to the mountains of the Pindos range.

The investigated area has been enriched with many adventive taxa (17), mainly in anthropogenic habitats in and around villages. This can be attributed, mainly, to the transportation of many loads of gravel and sand, including deposited diaspores, which took place in the last

decades and large scale restoration works, conducted on old traditional houses by owners who use the villages nowadays as summer resorts. That explains also the existence of taxa of coastal habitats, such as *Beta vulgaris* subsp. *maritima* and *Atriplex patula*. This phenomenon has also been observed in more human-influenced and heavily urbanized areas of Greece, such as on Mt Pendelikon (Baliouisis & Yannitsaros 2011; Baliouisis 2011).

The physiognomy of the vegetation of Likeo has been shaped by *Quercus coccifera*, a species known for its tolerance to human interference and in general for its adaptation in the ecological factors that prevail in the area. The vegetation on flysch is dominated by *Quercus frainetto*.

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