

New floristic records in the Balkans: 55*

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Abstract. New chorological data are presented for 186 species and subspecies from Bulgaria (9-11, 25-52, 180-184) and Greece (1-8, 12-24, 53-179, 185, 186). The taxa belong to the following families: Acanthaceae (61), Amaranthaceae (12), Amaryllidaceae (10, 146, 147), Anacardiaceae (62), Apiaceae (13, 63-69, 171), Araceae (54), Asclepiadaceae (70, 71), Asparagaceae (11, 41-43, 148), Asphodelaceae (149, 179), Aspleniaceae (57), Asteraceae (1-3, 14-19, 25, 26, 72-82, 174, 175, 180-182, 185, 186), Boraginaceae (83-85), Brassicaceae (86-92), Campanulaceae (93, 94), Caprifoliaceae (95, 96), Caryophyllaceae (27-29, 55, 97-105, 162, 172), Chenopodiaceae (4, 5), Colchicaceae (150, 151), Convolvulaceae (9, 106), Crassulaceae (107-111, 176), Cupressaceae (60), Cuscutaceae (30), Cystopteridaceae (58), Cyperaceae (44), Dipsacaceae (112, 173), Euphorbiaceae (113-115), Fabaceae (31, 116-126, 163-165, 183), Gentianaceae (127), Geraniaceae (128, 129), Hyacinthaceae (152-155, 168), Hypericaceae (20, 56, 130), Juncaceae (156), Lamiaceae (6, 7, 21, 32, 33, 131-134, 166), Liliaceae (45), Malvaceae (135), Onagraceae (167), Ophioglossaceae (59), Orchidaceae (157, 158), Orobanchaceae (136, 137), Oxalidaceae (22), Papaveraceae (34), Parnassiaceae (23), Plantaginaceae (138), Plumbaginaceae (24, 139), Poaceae (46-52, 159-161, 169), Primulaceae (140), Ranunculaceae (8, 177), Rhamnaceae (178), Rubiaceae (141), Rosaceae (35, 36), Rubiaceae (37, 38), Saxifragaceae (142, 143), Scrophulariaceae (39, 144, 145), Solanaceae (54, 185), and Violaceae (40).

New taxa for countries are: Greece – *Epilobium brachycarpum* (167), *Erigeron karvinskianus* (186), *Pascalia glauca* (3).

The publication includes contributions by: B. Biel & Kit Tan (1-8), P. Boycheva & M. Kaschieva (9-11), C. Cattaneo & M. Grano (12-24), D.S. Dimitrov (25-52), K. Giannopoulos & Kit Tan (53-54), T. Jakobitsch (55-56), E. Kalogiannis & P. Trigas (57-161), K. Polymenakos, Kit Tan & V. Pantavos (162-169), K.B. Simoglou (170), Kit Tan & G. Kofinas (171-173), Kit Tan & Sister Pachomia (174-179), V. Vladimirov (180-184), and G. Zarkos & Kit Tan (185-186).

Key words: Balkan Peninsula, Bulgaria, Greece, new plant records, South-East Europe, vascular plants

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Reports 1–8

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This is the fourteenth report of new plant-records for the island of Milos (phytogeographical region Kiklades, Nomos Kikladon, Eparchia Milou) based on visits in 2023 and 2024. The eight records listed are new for the island unless otherwise stated. Four of the species were found to be new for the floristic region Kiklades (Kik) as circumscribed in Flora Hellenica (Strid & Tan 1997), and the total number of new records we have so far found for this floristic region are now 124. Occurrence on the other Kikladean islands is briefly summarized.

Asteraceae

1. *Bidens tripartita* L.

Gr NW outskirts of Plaka, periodically wet edges of cobblestone path below garden, 150 m, 36°44'41"N, 24°25'15"E, 29.09.2024, *Biel* 24.221.

New for the Kiklades.

2. *Helianthus annuus* L.

Gr NE edge of Zefyria, waste ground by dirt road, 15 m, 36°42'04"N, 24°29'26"E, 01.10.2024, *Biel* obs. (photo).

Probably remnant of former planting, only found once. In the Kiklades, noted in a streambed on Andros by S. Snogerup in August 1994.

3. *Pascalia glauca* Ortega (Fig. 1)

Gr Plaka, park area at Archaeological Museum adjacent to garden, 165 m, 36°44'37"N, 24°25'26"E, 29.09.2024, *Biel* obs. (photo, det. F. Verloove, Meise).

New for Greece. Native of S America occurring from Bolivia to S Argentina. In the Mediterranean area an introduced alien in Spain, Portugal and Palestine.

Chenopodiaceae

4. *Arthrocnemum macrostachyum* (Moric.) K. Koch (Syn.: *Arthrocaulon macrostachyum* (Moric.) Pirainen & G. Kadereit)

Gr NE margin of Achivadolimni, sandy area with *Juniperus* scrub, 3 m, 36°41'17"N, 24°26'38"E, 05.10.2024, *Biel* 24.245.

Reported for most of the Kiklades.

5. *Caroxylon* sp. (Fig. 2)

Gr N of Plaka, stony phrygana on steep slopes of Kastro hill, 210 m, 36°44'43"N, 24°25'18"E, 05.04.2024, *Biel* 24.019.

Plants deviating from the genus *Caroxylon* in their non-gibbous leaf bases and smooth glabrous hairs, thus placed by A. Sukhorukov into *Akhania* (a recently circumscribed genus named after the Iranian botanist Hossein Akhani).

Lamiaceae

6. *Mentha ×piperita* L.

Gr Adamas, waste ground, parks and road margins, 10 m, 36°43'32"N, 24°26'42"E, 06.10.2024, *Biel* 24.250.



Fig. 1. *Pascalia glauca* (photo B. Biel).



Fig. 2. *Caroxylon* sp. (photo B. Biel).



Fig. 3. *Perovskia abrotanoides* (photo B. Biel).



Fig. 4. *Nigella arvensis* subsp. *brevifolia* (photo B. Biel).

Established escape from planting. In the Kiklades reported from a stream valley on Ios.

7. *Perovskia abrotanoides* Kar. (Fig. 3)

Gr NW outskirts of Plaka, periodically wet edges of cobblestone path below garden, 150 m, 36°44'41"N, 24°25'15"E, 29.09.2024, Biel obs. (photo).

Established escape from cultivation. Native to C and SW Asia, it is established on Amorgos.

Ranunculaceae

8. *Nigella arvensis* subsp. *brevifolia* Strid (Fig. 4)

Gr S-SW of Zefyria, grassy edge of dirt road near plant nursery, 12 m, 36°41'26"N, 24°29'01"E, 25.05.2023, Biel 23.215a; NE of Achivadolimni, waste ground at beach with *Tamarix* and phrygana, 2 m, 36°41'17"N, 24°26'38"E, 25.05.2023, Biel 23.216; loc. *ibid.*, 01.06.2023, Biel 23.260; loc. *ibid.*, 08.11.2023, Biel 23.303; Adamas-Neochori, ruderal sites and phrygana on hill near Ieros Naos Ag. Dimitriou, 18 m, 36°43'37"N, 24°26'58"E, 01.06.2023, Biel 23.254; S of Zefyria, edge of sand track with *Nerium*, between fields and pastures, 10 m, 36°41'29"N, 24°29'16"E, 01.06.2023, Biel 23.257; S-SW of Zefyria, phrygana slopes at small sandy dirt road, narrow pass, 40 m, 36°41'10"N, 24°28'45"E, 28.10.2023, Biel 23.275; S of Zefyria, edge of sandy dirt road with phrygana, 11 m, 36°41'38"N, 24°29'19"E, 28.10.2023, Biel 23.276; SE of Pera Triovasalos, road margins in olive plantation, 80 m, 36°44'16"N, 24°26'35"E, 27.10.2023, Biel 23.271. Four other sites noted in the area of Zefyria.

New for the Kiklades. Identifications confirmed by S. Meyer (Göttingen), det. as *N. a.* subsp. *brevifolia* by E. Bergmeier (Göttingen).

Cited vouchers are provisionally kept in the private herbarium of B. Biel at Höchberg (herb. Biel).

Reports 9–11

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Convolvulaceae

9. *Ipomoea purpurea* (L.) Roth.

Bu Black Sea Coast (*Northern*): Dobrich region, near the village of Bozhurets, 43°42'32"N, 28°30'73"E, 14.10.2023, coll. P. Boycheva, det. M. Kaschieva (SO 108274).

A dump with plant waste was found with the presence of flowering specimens. Five flowering and fruiting specimens were recorded in the locality, which probably represent a self-sustaining population. Although the species is grown as an ornamental throughout Bulgaria, it has not yet been reported from natural habitats in the Northern Black Sea Coast. Recently, the species has been reported for Black Sea Coast (*Southern*) (Vladimirov 2020). *Ipomoea purpurea* is an adventive species for Bulgaria. The origin of the species is tropical America (Stoyanov & al. 2022).



Fig. 5. *Carum meoides* (photo C. Cattaneo).

Amaryllidaceae

10. *Sternbergia lutea* (L.) Ker Gawl. ex Spreng.

Bu Northeastern Bulgaria: Dobrich region, Tervel Municipality, between the villages of Bozhan and Malki Izvor, 43°77'42"N, 27°46'77"E, 04.10.2023, coll. P. Boycheva, det. M. Kaschieva (SO 108275).

This is the first report for Northeast Bulgaria floristic region. The registered locality is in a deciduous oak forest. The population is represented by a tuft with more than 30 specimens in the flowering phase. *Sternbergia lutea* is grown as an ornamental plant in parks and gardens throughout Bulgaria. The most likely cause of the presence of *Sternbergia lutea* in natural habitats is the disposal of plant and garden waste with viable bulbs by local residents. Recently, a large stand of the species of ca. 30 m² has been reported for the adjacent Black

Sea Coast (*Northern*) floristic region (Vladimirov 2021a). The species is adventive to Bulgaria, originating in the Mediterranean (Stoyanov & al. 2022).

Asparagaceae

11. *Yucca gloriosa* L.

Bu Black Sea Coast (*Northern*): Dobrich region, road to Bolata locality, Balgarevo village, 43°38'22"N, 28°45'17"E, 07.10.2023, coll. P. Boycheva, det. M. Kaschieva (SO 108271).

One specimen is registered. *Yucca gloriosa* is of North American origin. In Bulgaria it is grown as a decorative species (Stoyanov & al. 2022). This is the first report on the distribution of *Yucca gloriosa* in a natural habitat in the floristic subregion of the Northern Black Sea Coast.

Reports 12–24

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Three new records are provided for Nomos Lakonias and five for Nomos Messinias. Three of them are new for the Mani Peninsula.

Amaranthaceae

12. *Amaranthus deflexus* L.

Gr Nomos Lakonias, Eparchia Lakedemonos: Parori, Panaghia Zagouna, 584 m, 37°03'16"N, 22°23'09"E, 16.08.2024, Cattaneo & Grano 2764 (herb. Cattaneo).

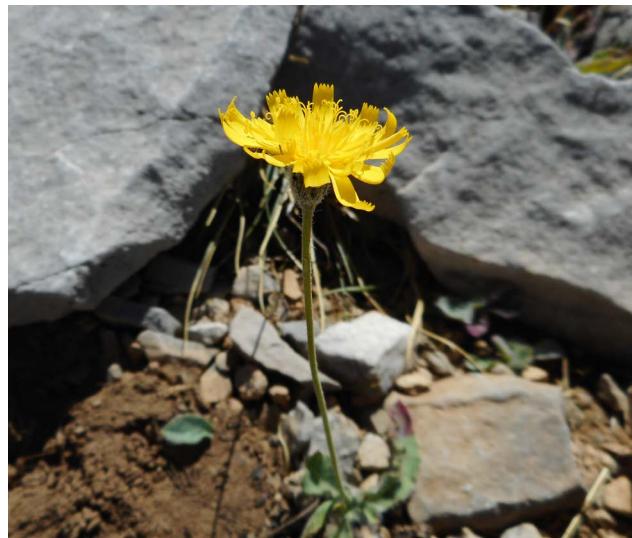


Fig. 6. *Hieracium phocaicum* (photo C. Cattaneo).

Apiaceae

13. *Carum meoides* (Griseb.) Halácsy (Fig. 5)

Gr Nomos Messinias, Eparchia Kalamon: between Kastanea and Saidona, limestone outcrops, 1100 m, 36°52'50"N, 22°18'16"E, 05.08.2024, Cattaneo & Grano 2691 (herb. Cattaneo, det. W. Greuter, November 2024).

New for the Mani Peninsula.

Asteraceae

14. *Anthemis auriculata* Boiss.

Gr Nomos Messinias, Eparchia Kalamon: near Aghios Kostantinos chapel, roadside, 1000 m, 36°52'35"N, 22°18'36"E, 08.08.2024, Cattaneo & Grano 2682 (herb. Cattaneo).

15. *Cirsium hypolepis* Boiss. & Heldr.

Gr Nomos Messinias, Eparchia Kalamon: Dasos Vasiliki, along a mountain road, 1470 m, 36°53'57"N, 22°19'14"E, 08.08.2024, Cattaneo & Grano 2774 (herb. Cattaneo).

16. *Hieracium pannosum* Boiss.

Gr Nomos Messinias, Eparchia Kalamon: Dasos Vasiliki, rocky outcrops, 1490 m, 36°54'00"N, 22°19'19"E, 08.08.2024, Cattaneo & Grano 2773 (herb. Cattaneo).

17. *Hieracium phocaicum* Zahn (Fig. 6)

Gr Nomos Lakonias, Eparchia Lakedemonos: Mt Profitis Ilias, near the summit among limestone rocks, 2215 m, 36°57'25"N, 22°21'10"E,



Fig. 7. *Jacobaea ambigua* subsp. *taygetea* (photo C. Cattaneo).

13.08.2024, Cattaneo & Grano 2777 (herb. Cattaneo, det. G. Gottschlich, September 2024).

New for the Peloponnese.

18. *Hypochaeris glabra* L.

Gr Nomos Messinias, Eparchia Kalamon: near Aghios Kostantinos chapel, 918 m, 36°52'24"N, 22°18'32"E, 08.08.2024, Cattaneo & Grano 2776 (herb. Cattaneo).

19. *Jacobaea ambigua* subsp. *taygetea* (Boiss. & Heldr.) B. Nord. & Greuter (Fig. 7)

Gr Nomos Messinias, Eparchia Kalamon: near Saidona, along grassy slope, 923 m, 36°53'08"N,



Fig. 8. *Oxalis stricta* (photo C. Cattaneo).



Fig. 9. *Parnassia palustris* (photo C. Cattaneo).

22°18'11"E, 07.08.2024, *Cattaneo & Grano* 2678
(herb. Cattaneo).

Hypericaceae

20. *Hypericum tetrapterum* Fr.

Gr Nomos Lakonias, Eparchia Lakedemonos: Vlachochori, near a source, 689 m, 37°04'03"N, 22°21'04"E, 12.08.2024, *Cattaneo & Grano* 2710
(herb. Cattaneo).

Lamiaceae

21. *Mentha longifolia* (L.) Huds.

Gr Nomos Messinias, Eparchia Kalamon: near Saidona, along a stream, 781 m, 36°53'15"N, 22°17'54"E, 07.08.2024, *Cattaneo & Grano* 2719
(herb. Cattaneo).

Oxalidaceae

22. *Oxalis stricta* L. (Fig. 8)

Gr Nomos Messinias, Eparchia Kalamon: near Aghios Kostantinos chapel, roadside, 928 m, 36°52'29"N, 22°18'31"E, 08.08.2024, *Cattaneo & Grano* 2769 (herb. Cattaneo).

New for the Peloponnese.

Parnassiaceae

23. *Parnassia palustris* L. (Fig. 9)

Gr Nomos Lakonias, Eparchia Lakedemonos: Lakomata, in a river bed, 1320 m, 36°59'16"N, 22°21'52"E, 11.08.2024, *Cattaneo & Grano* 2750
(herb. Cattaneo).

Plumbaginaceae

24. *Limonium albomarginatum* Brullo × *L. sieberi* (Boiss.) Kuntze

Gr Nomos Messinias, Eparchia Kalamon: Trahila, along the coast on limestone slope, 5 m, 36°46'17"N, 22°18'38"E, 09.08.2024, *Cattaneo & Grano* 2695
(herb. Cattaneo, det. M. Erben, October 2024).

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Reports 25–52

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Asteraceae

25. *Anthemis tenuiloba* (DC.) R. Fern.

Bu Forebalkan (Western): Belogradchik Rocks Natural Landmark, Sbegove locality, FP33, 22.09.2024, coll. & det. D. Dimitrov (SOM 179 266).

26. *Hieracium laevigatum* Willd.

Bu Forebalkan (Western): Belogradchik Rocks Natural Landmark, Kaleto locality, FP33, 21.09.2024, coll. & det. D. Dimitrov (SOM 179 270).

Caryophyllaceae

27. *Cerastium pumilum* subsp. *pallens* Schinz. & Thell.

Bu Znepole Region: Pchelina Dam, FM50, 13.04.2024, coll. & det. D. Dimitrov (SOM).

28. *Dianthus stenopetalus* Griseb.

Bu Pirin Mts (Northern): east of the town of Dobrinishte, GM13, 04.09.2024, coll. & det. D. Dimitrov (SOM 179 276).

29. *Minuartia anatolica* (Boiss.) Woronow

Bu Vitosha Region: above Studena Dam, FN70, 20.08.2024, coll. D. Dimitrov (SOM 178 717).

Cuscutaceae

30. *Cuscuta planiflora* Ten.

Bu Pirin Mts (Northern): above the town of Dobrinishte, silicate terrain, on *Genista rumelica*, GM13, 04.09.2024, coll. & det. D. Dimitrov (SOM 179 288).

Fabaceae

31. *Genista lydia* Boiss.

Bu Znepole Region: above Pchelina Dam, FN50, 13.04.2024, coll. & det. D. Dimitrov (SOM 179 291).

Lamiaceae

32. *Satureja coerulea* Janka

Bu Forebalkan (Eastern): on calcareous places in deciduous forest near the village of Musina, Veliko Tarnovo District, LH77, 12.12.2023, coll. & det. D. Dimitrov (SOM 179 329).

— Vitosha Region: above Studena Dam, FN70, 23.08.2024, coll. & det. D. Dimitrov (SOM 179 328).

33. *Stachys cretica* subsp. *bulgarica* Rech. f.

Bu Forebalkan (Western): Belogradchik Rocks Natural Landmark, Sbegove locality, FP33, 22.09.2024, coll. & det. D. Dimitrov (SOM 179 330).

Papaveraceae

34. *Fumaria densiflora* DC.

Bu Black Sea Coast (Southern): Camping Gradina near the town of Chernomorets, NG59, 07.04.2024, coll. & det. D. Dimitrov (SOM 179 305).

Rosaceae

35. *Aphanes microcarpa* (Boiss. & Reut.) Rothm.

Bu Black Sea Coast (Southern): Nature Landmark Begliktash, NG67, 24.03.2024, coll. & det. D. Dimitrov (SOM 179 318).

36. *Pyrus elaeagrifolia* subsp. *bulgarica* (Kuth. & Sachok.) Valev

Bu Valley of River Struma (Northern): above the town of Rila, FM76, 24.05.2024, coll. & det. D. Dimitrov (SOM 179 319).

Rubiaceae

37. *Asperula rumelica* Boiss.

Bu Pirin Mts (Northern): E of the town of Dobrinishte, silicate terrain, GM13, 05.09.2024, coll. & det. D. Dimitrov (SOM 179 320).

38. *Galium mirum* Rech. f.

Bu Black Sea Coast (Southern): Camping Gradina near the town of Chernomorets, NG59, coll. & det. D. Dimitrov (SOM 179 321).

Scrophulariaceae

39. *Cymbalaria muralis* G. Gaertn., B. May. & Schreb.

Bu Forebalkan (Western): on the walls of houses in the town of Belogradchik, FP33, 21.09.2024, coll. & det. D. Dimitrov (SOM 179 325).

Violaceae

40. *Viola aetolica* Boiss. & Heldr.

Bu Black Sea Coast (Southern): Natural Landmark Begliktash, NG67, 24.03.2024, coll. & det. D. Dimitrov (SOM 179 327).

Asparagaceae**41. *Ornithogalum montanum*** Cirillo**Bu** Valley of River Struma (*Northern*): above Rila town, FM76, 24.05.2024, coll. & det. *D. Dimitrov* (SOM 179 298).**42. *Ornithogalum oligophyllum*** E.D. Clarke**Bu** Black Sea Coast (*Southern*): on sand places at Camping Gradina, near the town of Chernomorets, NG59, 10.03.2024, coll. & det. *D. Dimitrov* (SOM 179 299, 179 300).**43. *Ornithogalum sphaerocarpum*** A. Kern.**Bu** Valley of River Struma (*Northern*): over the town of Rila, FM76, 24.05.2024, coll. & det. *D. Dimitrov* (SOM 179 301).**Cyperaceae****44. *Carex divulsa*** subsp. *leersii* (F.W. Schultz) W. Koch**Bu** Forebalkan (*Western*): forest along the road to the old Natural History Museum of the town of Belogradchik, FP33, 22.09.2024, coll. & det. *D. Dimitrov* (SOM 179 298).**Liliaceae****45. *Gagea pusilla*** (F.W. Schmidt) Sweet**Bu** Tundzha Hilly Country: Yambolski Bakadzhik, on grassy places north of the monument in the Hisarya locality, MH60, 25.02.2024, coll. & det. *D. Dimitrov* (SOM 179 294).**Poaceae****46. *Avena barbata*** Link**Bu** Forebalkan (*Western*): near Skalite Hotel in the town of Belogradchik, FP33, 22.09.2024, coll. & det. *D. Dimitrov* (SOM 179 306).**47. *Festuca spectabilis*** subsp. *affinis* (Hack.) Hack.**Bu** Black Sea Coast (*Southern*): Camping Gradina near the town of Chernomorets, NG59, 18.05.2024, coll. & det. *D. Dimitrov* (SOM 179 308).**48. *Holcus mollis*** L.**Bu** Valley of River Struma (*Northern*): wet meadows above the town of Rila, FM76, 24.05.2024, coll. & det. *D. Dimitrov* (SOM 179 309).**49. *Lolium remotum*** Schank**Bu** Valley of River Struma (*Northern*): above the town of Rila, FM76, 24.05.2024, coll. & det. *D. Dimitrov* (SOM 179 311).**50. *Milium vernale*** M. Bieb.**Bu** Forebalkan (*Western*): Belogradchik Rocks Natural Landmark, Sbegove locality, FP33, 22.09.2024, coll. & det. *D. Dimitrov* (SOM 179 310).**51. *Phleum montanum*** K. Koch**Bu** Rila Mts: above the St George Monastery near the town of Rila, FM76, 25.04.2024, coll. & det. *D. Dimitrov* (SOM 179 312).**52. *Phleum pratense*** subsp. *bertolonii* (DC.) Bornm.**Bu** Forebalkan (*Western*): Belogradchik Rocks Natural Landmark, Sbegove locality, FP33, 22.09.2024, coll. & det. *D. Dimitrov* (SOM 179 314).**Reports 53–54****Konstantinos Giannopoulos & Kit Tan***

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Solanaceae**53. *Mandragora officinarum*** L. (Fig. 10a)**Gr** Nomos & Eparchia Ilias: Castro, olive grove at foot of Chlemoutsi Castle, 170 m, 37°53'N, 21°08'E, flowering, 27.09.2024, *Giannopoulos & Grigoropoulou* obs. (photo); loc. *ibid.*, end of flowering, 25.10.2024, *Kit Tan & G. Vold* obs.

New for nomos and eparchia. There were 15–20 plants flourishing in a corner of a well-watered olive grove.

Araceae**54. *Biarum tenuifolium*** subsp. *abbreviatum* (Schott)**K. Richt.** (Fig. 10b)**Gr** Nomos Ilias, Eparchia Olimbias: Skliava, compacted clay at edge of olive plantation, 30–100 m, 37°36'N, 21°38'E, flowering, 02.10.2011, *Kit Tan, Vold & Giannopoulos* 31158; loc. *ibid.*, 08.10.2024, *Giannopoulos* obs. (photos).New for nomos and eparchia. Sterile flowers (stamnodes) are present both above and below the male zone. Previously determined as *B. rhopalospadix* K. Koch which is spring flowering and without sterile



Fig. 10a. *Mandragora officinarum*; b. *Biarum tenuifolium* subsp. *abbreviatum* (photos K. Giannopoulos).

flowers above the male flowers. The population at Skliava was visited annually by Giannopoulos and it was noted that the number of plants had increased substantially.

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Reports 55–56

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This field report presents evidence for the occurrence of two plant species, which are believed to inhabit Tinos, however, their occurrence has not yet been confirmed.

The island of Tinos (Fig. 11), as part of the Cyclades archipelago, has a surface of 197 km², which makes it the third biggest island of the Cyclades (Evelpidou & al. 2005). The geology of Tinos is dominated by metamorphic rocks, however igneous rocks and quaternary sediments occur as well (Evelpidou & al. 2005). The island's topography is semi-mountainous, with Mt. Tsiknias in the very east being the highest peak (726

m a.s.l.). Tinos has a Mediterranean climate and is characterized by its even-tempered conditions, a trait shared with other Cycladic islands, owing to its proximity to the surrounding sea. Despite its overall low annual precipitation of 465mm, Tinos experiences a comparatively higher amount of rainfall, particularly during the arid period, when compared to neighboring Cycladic islands. The prevailing wind pattern on Tinos exhibits heightened frequency during the summer months, predominantly characterized by northern winds (Theocharatos 1978). This atmospheric feature adds to the unique climatic profile of Tinos and plays a significant role in shaping the distribution of vegetation.

Field trips in 2023 and 2024 were made in the course of an archaeobotanical project on the island, where plant material from an archaeological excavation was investigated. Floristic recordings were made throughout the island to better understand the modern vegetation. Collected herbarium specimens are in the author's private herbarium.

Caryophyllaceae

55. *Silene aegaea* Oxelman (Fig. 12):

Gr Tinos Island: in a marble quarry near Isterinia, growing in between marble debris, which provides a little shade on the south-facing quarry, 90 m, 37°37'02.7"N, 25°02'01.3"E, May 2024, coll. T. Jakobitsch.

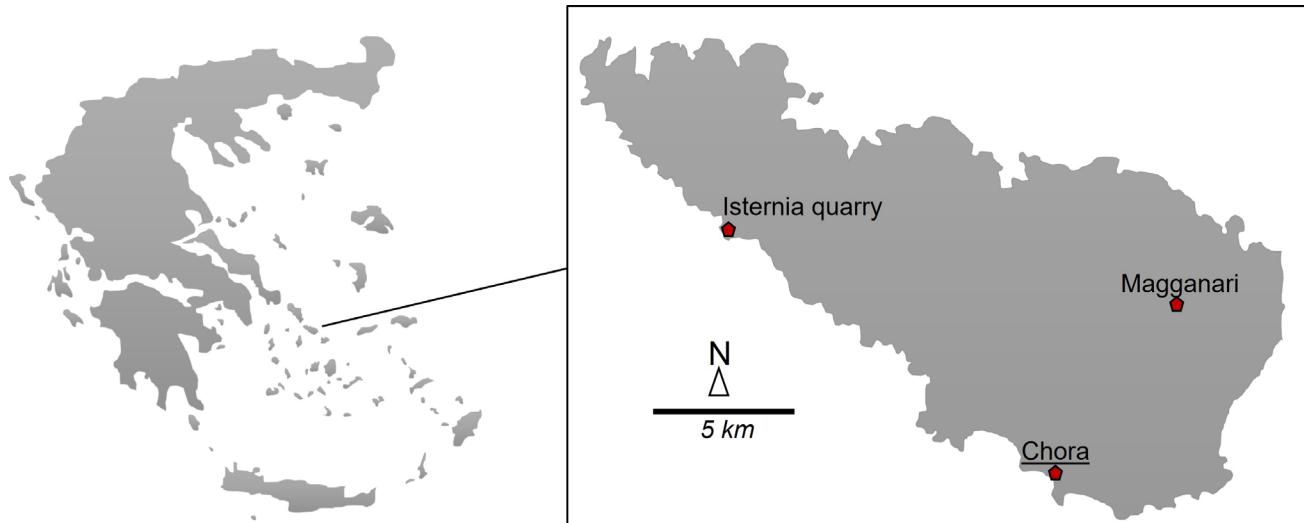


Fig. 11. A map of Greece (left) and Tinos (right), with the locations of the reported plants (Magganari, Isterinia quarry).



Fig. 12. *Silene aegaea* in its habitat. The detail shows the seed in three views (dorsal, ventral, lateral); scale bar = 200 µm.

A few individuals have been recorded. *Silene aegaea* is believed to be a hybrid of *S. sedoides* and *S. pentelica* (Oxelman 1996). It is known from Ikaria with recent evidence, however, the record from Tinos Island was not confirmed. A specimen was found in Heldreich's collection of April 1900 from Tinos, labeled "*Silene aegaea*". The extant material was insufficient to be properly identified by Oxelman, and he was not able to find it again in Tinos (Oxelman 1995).

Hypericaceae

56. *Hypericum cycladicum* Trigas (Fig. 13)

Gr Tinos Island: in a wooded holloway, with *Quercus ithaburensis* subsp. *macrolepis* and *Acer sempervirens*, semi-shaded location, 300 m, 37°35'16.6"N, 25°12'34.7"E, June 2023, coll. T. Jakobitsch.

A small population of only a few individuals was recorded in an area called Magganari. This species is

relatively new to science and was first described on Andros Island, and later on Paros, by P. Trigas in 2018. *Hypericum cycladicum* is morphologically similar to *H. perfoliatum* and *H. trichocaulon*, however, there are some distinct morphological differences which attest its status as a species, such as a few stems only (versus few to several in *H. perfoliatum* or numerous in *H. trichocaulon*), or the black laminar glands on bracts and bracteoles, which are absent on bracts and bracteoles of *H. perfoliatum* and *H. trichocaulon*. So far, *H. cycladicum* has been observed on Andros, Evvia, Mikonos, Naxos and Paros. Older records of *H. perfoliatum* in the Cyclades may refer to *H. cycladicum* (Trigas 2018).

Acknowledgements. I am grateful to Vasiliki Anevlavi, Austrian Archaeological Institute (OeAI-OeAW), for her help with Greek translations, travel planning and contacts



Fig. 13. *Hypericum cycladicum*, a species newly described by P. Trigas in 2018. Photo taken in June 2023 in Magganari in Tinos.

in Tinos. Special thanks are due to the Austrian Academy of Sciences (OeAW) for providing funding through the Archive and Travel Grant GO.INVESTIGATIO, which made this project possible.

Reports 57–161

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This report includes new plant-records from Mount Xirovouni (phytogeographical region West Aegean Islands, Evvia island, Nomos Evvias, Eparchia Chalkidas) based on collections made in 2023 and 2024. The 105 records listed are new for Mt. Xirovouni unless otherwise stated. Five of the species are new records for the Aegean Islands, two for the West Aegean Islands, one for Evvia island, while 12 species represent new records for Central Evvia.

Aspleniaceae

57. *Asplenium scolopendrium* L. subsp. *scolopendrium*
Gr Mount Xirovouni, summit area, Portaris peak, bases of limestone cliffs in dolines, 1398 m, 38°35'23"N, 23°54'54"E, 12.06.2023, *Kalogiannis* 274.

The presence of *Asplenium scolopendrium* on Evvia was originally documented by a specimen collected by Theodore von Heldreich on Mt. Dirphys. The new record from Mt. Xirovouni confirms its existence on the island after more than a century. Approximately 100 individuals were observed at this locality.

Cystopteridaceae

58. *Cystopteris fragilis* (L.) Bernh.
Gr NE slope of Mt. Xirovouni, open rocky areas, 1165 m, 38°35'26"N, 23°55'8"E, 12.06.2023, *Kalogiannis* 271.

Previously reported only from Mt. Dirphys in Evvia.

Ophioglossaceae**59. *Ophioglossum vulgatum* L.**

Gr Aboudiotissa stream, stream banks, 840 m, 38°34'13"N, 23°55'34"E, 20.05.2024, *Kalogiannis* 496.

New for Evvia island. *Ophioglossum vulgatum* is widespread across northern temperate regions but exhibits a scattered distribution in Greece, becoming progressively rarer toward the south.

Cupressaceae**60. *Juniperus foetidissima* Willd.**

Gr W slope of Mt. Xirovouni, limestone cliffs and open rocky areas, 1115 m, 38°34'43"N, 23°53'7"E, 03.10.2023, *Kalogiannis* 413.

Previously known from Evvia only on Mt. Dirphys. A few individuals are scattered across the northern and western slopes of Mt. Xirovouni.

Acanthaceae**61. *Acanthus spinosus* L.**

Gr E slope of Mt. Xirovouni, open rocky areas, limestone, 1059 m, 38°35'05"N, 23°55'45"E, 30.06.2023, *Kalogiannis* 321.



Fig. 14. *Chaerophyllum aureum* (photo E. Kalogiannis).

Anacardiaceae**62. *Rhus coriaria* L.**

Gr W slope of Mt. Xirovouni, crevices of limestone rocks, 1150 m, 38°34'43"N, 23°53'11"E, 03.10.2023, *Kalogiannis* 414.

Apiaceae**63. *Chaerophyllum aureum* L. (Fig. 14)**

Gr N slope of Mt. Xirovouni, along the path to Agianemos peak, wet places in rocky slopes and cliff bases, on limestone, 1285 m, 38°34'43"N, 23°53'25"E, 17.06.2024, *Kalogiannis* 541.

New for the Aegean Islands. *Chaerophyllum aureum* is widespread across Europe and the Caucasus but is rare in southern Greece.

64. *Geocaryum parnassicum* (Boiss. & Heldr.) Engstrand

Gr N slope of Mt. Xirovouni, rocky slopes, on limestone, 1360 m, 38°35'27"N, 23°55'5"E, 02.05.2024, *Kalogiannis* 479.

Previously reported only from Mt. Dirphys in Evvia.

65. *Hellenocarum multiflorum* (Sm.) H. Wolff

Gr NW slope of Mt. Xirovouni, rocky slopes, on limestone, 1275 m, 38°34'43"N, 23°53'25"E, 17.06.2024, *Kalogiannis* 546.

66. *Laserpitium siler* subsp. *garganicum* (Ten.) Arcang.

Gr NW slope of Mt. Xirovouni, rocky slopes and cliffs, on limestone, 1210 m, 38°34'40"N, 23°53'14"E, 07.06.2024, *Kalogiannis* 525.

Previously reported only from Mt. Dirphys in Evvia.

67. *Malabaila involucrata* Boiss. & Spruner

Gr NW slope of Mt. Xirovouni, vertical limestone cliffs, 1200 m, 38°34'44"N, 23°53'12"E, 29.04.2024, *Kalogiannis* 471.

New for Central Evvia.

68. *Opopanax hispidus* (Friv.) Griseb.

Gr E slope of Mt. Xirovouni, stony places, on limestone, 1230 m, 38°35'23"N, 23°55'27"E, 07.07.2023, *Kalogiannis* 336.

New for Central Evvia.

69. *Pimpinella tragium* Vill. subsp. *tragium*

Gr W slope of Mt. Xirovouni, rocky slopes, on limestone, 1240 m, 38°34'40"N, 23°53'15"E, 17.06.2024, *Kalogiannis* 542.

Previously reported only from Mt. Dirphys in Evvia.

Asclepiadaceae

- 70. *Vincetoxicum fuscatum* (Hornem.) Rchb. subsp. *fuscatum***

Gr N slope of Mt. Xirovouni, rocky meadows, on limestone, 1100 m, 38°35'39"N, 23°54'53"E, 30.06.2023, *Kalogiannis* 317.

Previously reported only from Mt. Dirphys in Evvia.

- 71. *Vincetoxicum speciosum* Boiss. & Spruner**

Gr N slope of Mt. Xirovouni, rocky meadows, on limestone, 1085 m, 38°35'39"N, 23°55'11"E, 05.06.2023, *Kalogiannis* 236.

Our finding on Mt. Xirovouni confirms an old record from the same area by Theodor von Heldreich (as noted by Rechinger 1961).

Asteraceae

- 72. *Anthemis auriculata* L.**

Gr E slope of Mt. Xirovouni, rocky slopes, on limestone, 1080 m, 38°34'40"N, 23°55'46"E, 12.04.2024, *Kalogiannis* 439.

Anthemis auriculata is a mainly lowland species. This is the first record from the mountains of Central Evvia.

- 73. *Atractylis cancellata* L.**

Gr N slope of Mt. Xirovouni, rocky slopes, on limestone, 1180 m, 38°35'44"N, 23°55'25"E, 24.07.2023, *Kalogiannis* 370.

First record from the mountains of Central Evvia. The presence of *Atractylis cancellata* above 1000 m is unusual in Greece.

- 74. *Bellis annua* L. subsp. *annua***

Gr E slope of Mt. Xirovouni, seasonally wet spots in rocky meadows, on limestone, 1130 m, 38°35'04"N, 23°55'35"E, 23.03.2023, *Kalogiannis* 12.

First record from the mountains of Central Evvia.

- 75. *Carduus nutans* subsp. *leiophyllus* (Petrović Stoj. & Stef.**

Gr N slope of Mt. Xirovouni, rocky slopes, on limestone, 1155 m, 38°35'42"N, 23°55'23"E, 20.05.2023, *Kalogiannis* 174.

First record from the mountains of Central Evvia.

- 76. *Doronicum columnae* Ten.**

Gr N slope of Mt. Xirovouni, shaded places in

rocky slopes, on limestone, 1185 m, 38°35'32"N, 23°55'32"E, 24.03.2023, *Kalogiannis* 32.

Previously reported only from Mt. Dirphys in Evvia.

- 77. *Hieracium racemosum* subsp. *eriopus* (Boiss. & Heldr.) Zahn**

Gr N slope of Mt. Xirovouni, rocky places in *Abies cephalonica* woodland openings, on limestone, 865 m, 38°35'33"N, 23°54'20"E, 16.10.2023, *Kalogiannis* 435.

New for the Aegean Islands. Specimens from Mt. Xirovouni were identified by Dr. Günter Gottschlich.

- 78. *Inula conyzae* (Griess.) DC.**

Gr N slope of Mt. Xirovouni, roadsides, on limestone, 830 m, 38°35'49"N, 23°54'08"E, 16.10.2023, *Kalogiannis* 427.

New for Central Evvia.

- 79. *Pulicaria dysenterica* (L.) Bernh.**

Gr N slope of Mt. Xirovouni, wet places in roadsides, on limestone, 875 m, 38°35'39"N, 23°52'43"E, 09.09.2024, *Kalogiannis* 552.

First record from the mountains of Central Evvia.

- 80. *Podospermum canum* C.A. May**

Gr E slope of Mt. Xirovouni, rocky slopes, on limestone, 1150 m, 38°35'26"N, 23°55'37"E, 26.05.2023, *Kalogiannis* 178.

First record from the mountains of Central Evvia.

- 81. *Taraxacum aleppicum* Dahlst.**

Gr E slope of Mt. Xirovouni, rocky meadows, on limestone, 1110 m, 38°35'07"N, 23°55'31"E, 23.03.2023, *Kalogiannis* 9.

Previously reported only from Mt. Dirphys in Evvia.

- 82. *Tragopogon crocifolius* subsp. *samaritanii* (Heldr. & Sart.) I. Richardson**

Gr N slope of Mt. Xirovouni, Xirorema, rocky slopes, 960 m, 38°35'25"N, 23°54'23"E, 12.05.2023, *Kalogiannis* 137.

Our finding confirms a previous record of this taxon from Mt. Xirovouni, above Steni village (Rechinger 1961).

Boraginaceae

- 83. *Cerinthe minor* L.**

Gr E slope of Mt. Xirovouni, rocky slopes, 1190 m, 38°35'27"N, 23°55'34"E, 24.03.2023, *Kalogiannis* 82.



Fig. 15. The population of *Lonicera alpigena* subsp. *formanekiana* on Mt. Xirovouni (photo E. Kalogiannis).

84. *Onosma kaheirei* Teppner

Gr W slope of Mt. Xirovouni, crevices of limestone cliffs, 1260 m, 38°34'39"N, 23°53'16"E, 29.04.2024, *Kalogiannis* 470.

Newly recorded for Central Evvia, this species was previously known only from the northern and southern regions of the island. Approximately 10 individuals were observed growing on a vertical cliff.

85. *Rindera graeca* (A. DC.) Boiss. & Heldr.

Gr W slope of Mt. Xirovouni, rocky slopes, on limestone, 1260 m, 38°34'39"N, 23°53'16"E, 29.04.2024, *Kalogiannis* 471.

A highly rare species in Evvia, previously documented only on Mt. Dirphys. The population on Mt. Xirovouni comprises approximately 50 individuals.

Brassicaceae

86. *Alyssum minutum* Schlecht. ex DC.

Gr E slope of Mt. Xirovouni, rocky places in dolines, 1230 m, 38°35'00"N, 23°54'50"E, 12.04.2023, *Kalogiannis* 57.

87. *Arabis alpina* L.

Gr N slope of Mt. Xirovouni, Xirorema, rocky places, 960 m, 38°35'25"N, 23°54'23"E, 12.05.2023, *Kalogiannis* 135.

Previously reported only from Mt. Dirphys in Evvia.

88. *Arabis hirsuta* (L.) Scop.

Gr N slope of Mt. Xirovouni, rocky slopes with open *Abies cephalonica* woodland, on limestone, 830 m, 38°35'34"N, 23°54'17"E, 12.05.2023, *Kalogiannis* 141.

New for the Aegean Islands. *Arabis hirsuta*, a Euro-Siberian species, was previously known in southern Greece only from Mt. Parnassos.

89. *Draba parnassica* Boiss. & Heldr.

Gr N slope of Mt. Xirovouni, rocky slopes, on limestone, 1125 m, 38°35'26"N, 23°55'34"E, 30.03.2023, *Kalogiannis* 25.

Previously reported only from Mt. Dirphys in Evvia.

90. *Iberis sempervirens* L.

Gr W slope of Mt. Xirovouni, crevices of limestone cliffs, 1210 m, 38°34'41"N, 23°53'13"E, 29.04.2024, *Kalogiannis* 462.

- 91. *Lepidium hirtum* subsp. *nebrodense* (Raf.) Thell.**
Gr N slope of Mt. Xirovouni, rocky slopes, on limestone, 1180 m, 38°35'25"N, 23°55'34"E, 26.05.2023, *Kalogiannis* 184.

Our finding on Mt. Xirovouni confirms a 19th-century record by the Austrian botanist Thomas Pichler.

92. *Lunaria annua* L.

- Gr** N slope of Mt. Xirovouni, Asprochouma area, on limestone, 785 m, 38°35'37"N, 23°53'35"E, 27.04.2024, *Kalogiannis* 449.

Campanulaceae

93. *Campanula incurva* A. DC.

- Gr** N slope of Mt. Xirovouni, crevices of limestone cliffs, 1245 m, 38°35'34"N, 23°55'03"E, 23.06.2023, *Kalogiannis* 298.

The population on Mt. Xirovouni marks the upper elevational limit of this endemic species, extending its known range by approximately 450 meters.

94. *Legousia falcata* (Ten.) Janch.

- Gr** W slope of Mt. Xirovouni, screes, on limestone, 1110 m, 38°34'45"N, 23°53'9"E, 29.04.2024, *Kalogiannis* 460.

First record from the mountains of Central Evvia.

Caprifoliaceae

95. *Lonicera alpigena* subsp. *formanekiana* Halácsy (Fig. 15)

- Gr** N slope of Mt. Xirovouni, rocky slopes and stabilized screes, on limestone, 1170 m, 38°35'34"N, 23°55'28"E, 12.06.2023, *Kalogiannis* 277.

New for the Aegean Islands. The population on Mt. Xirovouni consists of approximately 100 individuals and marks the southernmost geographic limit of this Balkan taxon. The nearest known population, on Mt. Timfristos, lies about 200 km away.

96. *Sambucus ebulus* L.

- Gr** N slope of Mt. Xirovouni, rocky meadows, on limestone, 1130 m, 38°35'44"N, 23°55'21"E, 23.06.2023, *Kalogiannis* 296.

Caryophyllaceae

97. *Agrostemma githago* L. subsp. *githago*

- Gr** W slope of Mt. Xirovouni, rocky slopes, on limestone, 1200 m, 38°34'47"N, 23°53'11"E, 07.06.2024,

Kalogiannis & Trigas 512.

First record from the mountains of Central Evvia.

98. *Cerastium candidissimum* Correns

- Gr** E slope of Mt. Xirovouni, rocky slopes, on limestone, 1230 m, 38°35'23"N, 23°55'29"E, 02.06.2023, *Kalogiannis* 221.

99. *Dianthus biflorus* Sm.

- Gr** W slope of Mt. Xirovouni, crevices of vertical limestone cliffs, 1200 m, 38°34'46"N, 23°53'11"E, 10.06.2024, *Kalogiannis* 524.

This species is particularly rare on Mt. Xirovouni, with only a few individuals observed growing in crevices of vertical cliffs, an unusual habitat for this species.

100. *Dianthus diffusus* Sm.

- Gr** N slope of Mt. Xirovouni, rocky meadows, on limestone, 1170 m, 38°35'38"N, 23°55'17"E, 26.05.2023, *Kalogiannis* 195.

101. *Minuartia attica* (Boiss. & Spruner) Vierh. subsp. *attica*

- Gr** N slope of Mt. Xirovouni, stabilized screes, on limestone, 1200 m, 38°35'33"N, 23°55'21"E, 26.05.2023, *Kalogiannis* 193.

102. *Petrorhagia illyrica* (L.) P.W. Ball & Heywood subsp. *illyrica*

- Gr** W slope of Mt. Xirovouni, screes, on limestone, 1200 m, 38°34'40"N, 23°53'13"E, 03.10.2023, *Kalogiannis* 417.

103. *Silene cretica* L.

- Gr** E slope of Mt. Xirovouni, rocky meadows, on limestone, 1105 m, 38°34'56"N, 23°55'42"E, 02.05.2023, *Kalogiannis* 124.

104. *Silene dirphya* Greuter & Burdet (Fig. 16)

- Gr** Mt. Xirovouni, summit area (Portaris peak), vertical limestone cliffs in dolines, 1400 m, 38°34'56"N, 23°55'42"E, 02.05.2023, *Kalogiannis* 124; N slope of Mt. Xirovouni, limestone cliffs, 1345 m, 38°35'28"N, 23°55'3"E, 07.07.2023, *Kalogiannis* obs.; NW slope of Mt. Xirovouni, limestone cliffs, 1290 m, 38°34'46"N, 23°53'16"E, 24.06.2024, *Kalogiannis* obs.

Silene dirphya was considered a local endemic to the summit area of Mt. Dirphys in Central Evvia, where



Fig. 16. *Silene dirphya* (photo E. Kalogiannis).

fewer than 50 individuals are estimated to occur. However, the newly discovered population on Mt. Xirovouni represents the largest known population of this species, with approximately 300 mature individuals. No significant threats to the plants have been observed on Mt. Xirovouni, as they grow in inaccessible areas, shielded from herbivores.

105. *Silene latifolia* Poir.

Gr NW slope of Mt. Xirovouni, rocky meadows in openings of *Abies cephalonica* woodland, on limestone, 1030 m, 38°35'37"N, 23°52'31"E, 27.04.2024, *Kalogiannis* 451.

Convolvulaceae

106. *Calystegia silvatica* (Kit.) Griseb.

Gr W slope of Mt. Xirovouni, crevices of limestone cliffs, 1200 m, 38°34'45"N, 23°53'11"E, 07.06.2024, *Kalogiannis & Trigas* 508.

Crassulaceae

107. *Sedum dasypetalum* L.

Gr N slope of Mt. Xirovouni, crevices of limestone cliffs, 1390 m, 38°35'23"N, 23°54'56"E, 07.07.2023, *Kalogiannis* 330.

Previously reported only from Mt. Dirphys in Evvia.

108. *Sedum eriocarpum* Sm.

Gr W slope of Mt. Xirovouni, screes, 1170 m, 38°34'44"N, 23°53'11"E, 07.06.2024, *Kalogiannis & Trigas* 519.

109. *Sedum magellense* subsp. *olympicum* (Boiss.) Greuter & Burdet

Gr E slope of Mt. Xirovouni, limestone rocks, 1210 m, 38°35'32"N, 23°55'28"E, 12.06.2023, *Kalogiannis* 267.

Previously reported only from Mt. Dirphys in Evvia.

110. *Sedum ochroleucum* Chaix

Gr N slope of Mt. Xirovouni, rocky slopes, on limestone, 1180 m, 38°35'45"N, 23°55'22"E, 23.06.2023, *Kalogiannis* 282.

New for Central Evvia.

111. *Sedum urvillei* DC.

Gr N slope of Mt. Xirovouni, crevices of limestone cliffs, 1150 m, 38°35'38"N, 23°55'17"E, 05.06.2023, *Kalogiannis* 232.

New for Central Evvia.

Dipsacaceae

112. *Cephalaria ambrosioides* (Sm.) Roem. & Schult.

Gr N slope of Mt. Xirovouni, roadsides, 775 m, 38°35'54"N, 23°54'07"E, 07.08.2023, *Kalogiannis* 382.

Euphorbiaceae

113. *Euphorbia hennariifolia* Willd.

Gr N slope of Mt. Xirovouni, crevices of limestone rocks, 1210 m, 38°35'34"N, 23°55'11"E, 05.06.2023, *Kalogiannis* 230.

Previously reported only from Mt. Dirphys in Evvia.

114. *Euphorbia myrsinifolia* L.

Gr E slope of Mt. Xirovouni, rocky meadows, on limestone, 1200 m, 38°35'35"N, 23°55'15"E, 26.05.2023, *Kalogiannis* 185.

Our finding on Mt. Xirovouni confirms an early 20th-century record by the Greek botanist Vasileios Tuntas (Rechinger 1961).

115. *Mercurialis ovata* Sternb. & Hoppe

Gr E slope of Mt. Xirovouni, stabilized screes, on limestone, 1220 m, 38°35'32"N, 23°55'33"E, 30.03.2023, *Kalogiannis* 27.

Fabaceae

116. *Hippocratea emerus* subsp. *emeroides* (Boiss. & Spruner) Greuter & Burdet

Gr E slope of Mt. Xirovouni, rocky places, on limestone, 1180 m, 38°35'28"N, 23°55'35"E, 26.05.2023, *Kalogiannis* 181.

117. *Lathyrus digitatus* (M. Bieb.) Fiori

Gr E slope of Mt. Xirovouni, rocky places, on limestone, 1120 m, 38°35'04"N, 23°55'39"E, 02.05.2023, *Kalogiannis* 128.

118. *Lathyrus laxiflorus* (Desf.) Kuntze

Gr W slope of Mt. Xirovouni, screes and rocky places, on limestone, 1180 m, 38°34'46"N, 23°53'10"E, 07.06.2024, *Kalogiannis & Trigas* 514.

119. *Lathyrus sphaericus* Retz.

Gr E slope of Mt. Xirovouni, rocky places, on limestone, 1130 m, 38°35'38"N, 23°55'24"E, 02.05.2023, *Kalogiannis* 164.

120. *Lens orientalis* (Boiss.) Schmalh.

Gr W slope of Mt. Xirovouni, rocky places, on limestone, 1190 m, 38°34'33"N, 23°53'14"E, 13.04.2024, *Kalogiannis* 478.

New for the mountains of Central Evvia.

121. *Medicago lupulina* L.

Gr E slope of Mt. Xirovouni, rocky places in dolines, on limestone, 1150 m, 38°34'52"N, 23°55'31"E, 13.04.2023, *Kalogiannis* 69.

122. *Melilotus graecus* (Boiss. & Spruner) Lassen

Gr NE slope of Mt. Xirovouni, roadbanks, 1120 m, 38°35'42"N, 23°55'34"E, 23.06.2023, *Kalogiannis* 300.

123. *Trifolium parnassi* Boiss. & Spruner

Gr W slope of Mt. Xirovouni, grasslands, on limestone, 1130 m, 38°34'53"N, 23°53'07"E, 07.06.2024, *Kalogiannis & Trigas* 571.

New for the Aegean Islands. *Trifolium parnassi* is relatively widespread across the mountains of mainland Greece, with a range just extending into southern Albania (Mt. Ostravica) (Strid 2024). However, it has not previously been documented in the Aegean Islands. A small population was observed in the above locality.

124. *Trifolium pratense* L.

Gr N slope of Mt. Xirovouni, rocky meadows, on limestone, 1140 m, 38°35'47"N, 23°55'28"E, 23.06.2023, *Kalogiannis* 297.

125. *Trifolium repens* L.

Gr E slope of Mt. Xirovouni, rocky meadows, on limestone, 1100 m, 38°34'56"N, 23°55'42"E, 02.05.2023, *Kalogiannis* 117.

126. *Vicia melanops* Sm.

Gr E slope of Mt. Xirovouni, rocky places in sparse *Abies cephalonica* woodland, on limestone, 980 m, 38°34'40"N, 23°55'52"E, 13.05.2023, *Kalogiannis* 165.

Gentianaceae**127. *Centaurium erythraea* Rafn.**

Gr E slope of Mt. Xirovouni, abandoned field with terraces, on limestone, 1040 m, 38°35'45"N, 23°55'06"E, 30.06.2023, *Kalogiannis* 305.

Geraniaceae**128. *Geranium subcaulescens* L' Her. (Fig. 17)**

Gr N slope of Mt. Xirovouni, along the path to Portaris peak, rocky slopes, on limestone, 1350 m, 38°35'28"N, 23°55'08"E, 02.05.2024, *Kalogiannis* 473; NW slope of Mt. Xirovouni, rocky slopes, on limestone, 1380 m, 38°34'42"N, 23°53'23"E, 10.06.2024, *Kalogiannis* obs.

The presence of *Geranium subcaulescens* on Evvia has been based on a specimen collected by Theodore von Heldreich on Mt. Dirphys. The new records from Mt. Xirovouni confirm its existence on the island after more than a century. Observations revealed only 10–15 individuals in both localities, indicating that the species is very rare on Mt. Xirovouni.

129. *Geranium tuberosum* L.

Gr N slope of Mt. Xirovouni, Xirorema, rocky slopes by the stream, on limestone, 900 m, 38°35'30"N, 23°54'19"E, 20.04.2023, *Kalogiannis* 80.

Hypericaceae**130. *Hypericum vesiculosum* Griseb.**

Gr W slope of Mt. Xirovouni, crevices and bases of limestone cliffs, 1200 m, 38°34'48"N, 23°53'10"E, 07.06.2024, *Kalogiannis & Trigas* 511.

New for Central Evvia. *Hypericum vesiculosum* has a scattered distribution in Greece and the European part of Türkiye. Previously, it was known in Evvia from a single collection at the northernmost part of the island. The discovered population of Mt. Xirovouni is small, consisting of fewer than 100 individuals.

Lamiaceae**131. *Prunella laciniata* (L.) L.**

Gr E slope of Mt. Xirovouni, rocky meadows with sparse *Juniperus oxycedrus*, on limestone, 1120 m, 38°35'42"N, 23°55'34"E, 23.06.2023, *Kalogiannis* 279.

132. *Salvia argentea* L.

Fig. 17. *Geranium subcaulescens* (photo E. Kalogiannis).

Gr W slope of Mt. Xirovouni, rocky meadows, on limestone, 1200 m, 38°34'41"N, 23°53'13"E, 29.04.2024, *Kalogiannis* 469.

133. *Salvia ringens* Sm.

Gr W slope of Mt. Xirovouni, crevices of limestone rocks, 1230 m, 38°34'41"N, 23°53'14"E, 07.06.2024, *Kalogiannis & Trigas* 513.

New for Central Evvia.

134. *Thymus leucotrichus* Halácsy (syn.: *T. euboicus* Halácsy) (Fig. 18)

Gr NW slope of Mt. Xirovouni, crevices of limestone rocks, 1370 m, 38°34'42"N, 23°53'22"E, 07.06.2024, *Kalogiannis & Trigas* 513.

Thymus euboicus was first described by Halácsy (1902) based on a specimen collected by C. Leonis (WU 0074789!) from Mt. Dirphys. In subsequent treatments of the genus *Thymus* in Greece (Baden 1991; Dimopoulos et al. 2013), it was regarded as a synonym of *T. dolopicus* Formánek, a dubious species originally described from the Agrafa region in southern Pindos. However, the taxonomic status of *T. dolopicus* remains uncertain. According to Baden (1991), *T. dolopicus* "matches a putative hybrid between *T. leucotrichus* and *T. longicaulis* subsp. *chaubardii* (Boiss. & Heldr.) Jalas." Plants collected from Mt. Xirovouni match those from Mt. Dirphys that Halácsy originally described as *T. euboicus* in all morphological traits. The plants from



Fig. 18. *Thymus leucotrichus* on Mt. Xirovouni (photo E. Kalogiannis).

Evvia exhibit sessile, linear to oblanceolate leaves that are shortly velutinous with several longer hairs. These characteristics do not match the key morphological features of *T. dolopicus*; instead, plants from Evvia key out to *T. leucotrichus*, a variable species distributed across Greece, Bulgaria, southern Anatolia, and Syria. We examined plant material of *T. leucotrichus* collected from various regions of Greece and compared it with the specimens from Mt. Xirovouni. All morphological features of the Mt. Xirovouni specimens fall within the variation observed in *T. leucotrichus*. While some plants from Evvia exhibit unusually long inflorescences, this trait is variable within the population and cannot serve as a distinguishing feature between *T. euboaeus* and *T. leucotrichus*. Consequently, *T. euboaeus* should be treated as a synonym of *T. leucotrichus*.

Malvaceae

135. *Malva neglecta* Wallr.

Gr E slope of Mt. Xirovouni, grasslands, on limestone, 1340 m, 38°35'13"N, 23°54'29"E, 07.07.2023, Kalogiannis 332.

Orobanchaceae

136. *Euphrasia salisburgensis* Hoppe

Gr NW slope of Mt. Xirovouni, rocky slopes, on limestone, 1340 m, 38°34'44"N, 23°53'23"E, 09.09.2024, Kalogiannis 554.

New for the West Aegean Islands. Mainly distributed in the mountains of the Greek mainland, this Arctic-Alpine species was previously known only from Crete (Mt. Lefka Ori) in the Aegean.

137. *Orobanche alba* Willd.

Gr N slope of Mt. Xirovouni, rocky slopes, on limestone, 1170 m, 38°34'35"N, 23°53'14"E, 20.05.2024, Kalogiannis 480.

New for Central Evvia. The plants were found parasitizing *Origanum vulgare* subsp. *hirtum* (Link) Ietsw.

Plantaginaceae

138. *Linaria simplex* Desf.

Gr W slope of Mt. Xirovouni, scree, on limestone, 1170 m, 38°34'44"N, 23°53'11"E, 07.06.2024, Kalogiannis & Trigas 516.

This is the first record of this mainly lowland species in the mountains of Central Evvia.

Plumbaginaceae

139. *Armeria canescens* (Host) Boiss.

Gr W slope of Mt. Xirovouni, rocky slopes, on limestone, 1380 m, 38°34'42"N, 23°53'23"E, 10.06.2024, *Kalogiannis* 525.

Primulaceae

140. *Lysimachia serpyllifolia* Schreb.

Gr N slope of Mt. Xirovouni, rocky slopes, on limestone, 1170 m, 38°35'45"N, 23°55'29"E, 20.05.2023, *Kalogiannis* 172.

Rosaceae

141. *Rubus canescens* DC.

Gr E slope of Mt. Xirovouni, roadsides, on limestone, 1120 m, 38°35'14"N, 23°55'35"E, 30.06.2023, *Kalogiannis* 319.

Saxifragaceae

142. *Saxifraga carpetana* subsp. *graeca* (Boiss. & Heldr.) D. A. Webb

Gr NW slope of Mt. Xirovouni, rocky meadows, on limestone, 1075 m, 38°35'03"N, 23°53'02"E, 24.04.2023, *Kalogiannis* 97.

143. *Saxifraga hederacea* L.

Gr N slope of Mt. Xirovouni, crevices of limestone cliffs, 1210 m, 38°34'58"N, 23°53'56"E, 24.04.2023, *Kalogiannis* 96.

Scrophulariaceae

144. *Scrophularia lucida* L.

Gr E slope of Mt. Xirovouni, rocky slopes, 1100 m, 38°34'57"N, 23°55'43"E, 02.05.2023, *Kalogiannis* 114.

145. *Verbascum delphinicum* Boiss. & Heldr. subsp. *delphinicum*

Gr N slope of Mt. Xirovouni, mixed forests, 1000 m, 38°35'34"N, 23°52'31"E, 07.06.2024, *Kalogiannis* & Trigas 507.

Amaryllidaceae

146. *Allium guttatum* Steven

Gr N slope of Mt. Xirovouni, open rocky areas, lime-

stone, 1110 m, 38°35'05"N, 23°53'16"E, 24.07.2023, *Kalogiannis* 357.

147. *Allium subhirsutum* L.

Gr NE slope of Mt. Xirovouni, open rocky areas, limestone, 1170 m, 38°35'44"N, 23°55'29"E, 05.06.2023, *Kalogiannis* 235.

Asparagaceae

148. *Asparagus aphyllus* L. subsp. *orientalis* (Baker) P.H. Davis

Gr W slope of Mt. Xirovouni, rocky slopes, on limestone, 1,237 m, 38°34'38"N, 23°53'13"E, 03.05.2024, *Kalogiannis* 474.

New for Central Evvia.

Asphodelaceae

149. *Asphodeline liburnica* (Scop.) Rchb.

Gr N slope of Mt. Xirovouni, rocky slopes, on limestone, 1085 m, 38°35'42"N, 23°55'06"E, 23.06.2023, *Kalogiannis* 289.

New for Central Evvia.

Colchicaceae

150. *Colchicum chalcedonicum* Azn. subsp. *chalcedonicum*

Gr N slope of Mt. Xirovouni, roadsides, 750 m, 38°35'57"N, 23°54'1"E, 03.10.2023, *Kalogiannis* 407.

First record from the mountains of Central Evvia.

151. *Colchicum euboeum* (Boiss.) K.M. Perss.

Gr W slope of Mt. Xirovouni, rocky places at the base of limestone cliffs, 1210 m, 38°34'40"N, 23°53'14"E, 06.08.2024, *Kalogiannis* 523.

Hyacinthaceae

152. *Ornithogalum exaratum* Zahar.

Gr N slope of Mt. Xirovouni, Xirorema, rocky places in mixed forest, on limestone, 850 m, 38°35'35"N, 23°54'15"E, 20.04.2023, *Kalogiannis* 90.

Previously reported only from Mt. Dirphys in Evvia.

153. *Ornithogalum montanum* Ten.

Gr E slope of Mt. Xirovouni, rocky places in sparse *Abies cephalonica* woodlands, on limestone, 1100 m, 38°34'34"N, 23°54'48"E, 13.04.2023, *Kalogiannis* 74.

New for Central Evvia. The related *O. atticum* Boiss. & Heldr. also occurs on Mt. Xirovouni.

154. *Ornithogalum umbellatum* L.

Gr N slope of Mt. Xirovouni, rocky slopes, on limestone, 1165 m, 38°35'45"N, 23°55'29"E, 20.05.2023, Kalogiannis 175.

New for Central Evvia.

155. *Scilla bifolia* L.

Gr E slope of Mt. Xirovouni, rocky places in sparse *Abies cephalonica* woodlands, on limestone, 1165 m, 38°35'17"N, 23°55'31"E, 23.03.2023, Kalogiannis 4.

Juncaceae

156. *Juncus effusus* L.

Gr N slope of Mt. Xirovouni, marshy places by a rivulet, 1070 m, 38°35'05"N, 23°53'05"E, 03.10.2023, Kalogiannis 411.

Previously reported only from Mt. Dirphys in Evvia.

Orchidaceae

157. *Epipactis helleborine* (L.) Crantz

Gr N slope of Mt. Xirovouni, wet places in mixed forest, 1000 m, 38°35'28"N, 23°52'33"E, 17.07.2024, Kalogiannis 541.

This is the second record of *Epipactis helleborine* from Evvia, with the first documented near Steni village, close to Mt. Xirovouni.

158. *Neotinea tridentata* (Scop.) R.M. Bateman & al.

Gr E slope of Mt. Xirovouni, rocky meadows, on limestone, 1220 m, 38°35'20"N, 23°55'27"E, 02.05.2023, Kalogiannis obs. (photos).

Poaceae

159. *Phleum alpinum* L.

Gr NE slope of Mt. Xirovouni, rocky meadows, on limestone, 1165 m, 38°35'30"N, 23°55'29"E, 02.06.2023, Kalogiannis 208.

New for the West Aegean Islands. This is the second record of this Arctic-Alpine species in the Aegean Islands, the first being documented on the island of Samothraki.

160. *Poa pratensis* L.

Gr W slope of Mt. Xirovouni, screes, on limestone, 1185 m, 38°34'33"N, 23°53'14"E, 07.05.2024, Kalogiannis 479.

New for Central Evvia.

161. *Stipa pennata* L.

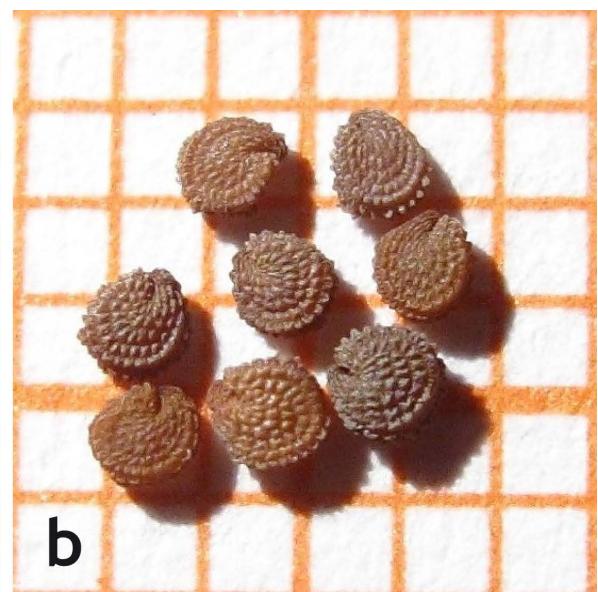
Gr N slope of Mt. Xirovouni, rocky meadows, on limestone, 1130 m, 38°35'39"N, 23°55'12"E, 09.06.2023, Kalogiannis 245.

Previously reported only from Mt. Dirphys in Evvia.

Acknowledgements. We thank Dr. Günter Gottschlich (Tübingen) for the identification of *Hieracium racemosum* subsp. *eriopus*.



Fig. 19a. *Stellaria ruderalis*; b. *S. media* seeds (photo V. Pantavos).



Reports 162–169

Kostas Polymenakos, Kit Tan* & Vasilis Pantavos

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Caryophyllaceae

162. *Stellaria ruderalis* Lepší & al. (Fig. 19a)

Gr Nomos Evrias, Eparchia Karistias: Mt Ochi, NE of summit area, 1.9 km E-SE of Rouklia, muddy spots around stream, 945 m, 38°03'N, 24°27'E, 02.06.2024, Polymenakos & Pantavos 1257 (ATH); Mt Ochi, 1.8 km NW of Platanistas, shady places in ravine, 350 m, 38°01'N, 24°30' E, 04.06.2024, Polymenakos & Pantavos 1244 (ATH).

- Nomos & Eparchia Attikis: Porto Rafti, 0.8 km W-SW of port, gardens, ruderal places and road sides, clay, 25 m, 37°53'N, 24°00'E, 06.01.2024, Polymenakos 1238 (ATH); Schinias, near Makaria fountain, on main road to Kato Souli, shady spot at roadside, limestone, 5 m, 38°09'N, 24°00'E, 06.04.2024, Polymenakos & Pantavos 1245 (ATH).
- Municipality of Chalandri, Psaron street, margins of unbuilt plot, 195 m, 38°01'N, 23°48'E, 31.03.2024, Polymenakos 1241 (ATH).
- Municipality of Vrilissia, Dirfis street, pavements, 260 m, 38°02'N, 23°50'E, 02.04.2024, Polymenakos 1242 (ATH).
- Municipality of Nea Ionia, Panetolion Square, lawn and pavements, 260 m, 38°02'N, 23°46'E, 04.04.2024, Polymenakos 1243 (ATH).
- Nomos Attikis, Eparchia Megaridos: 2.6 km NE of Erythres, roadsides and margins of cultivated fields, clay, 300 m, 38°14'N, 23°20'E, 24.03.2024, Polymenakos & Pantavos 1239 (ATH).

Stellaria media (L.) Vill. was absent from the localities stated. All collected specimens had well developed seed to confirm their identity (see Figs. 19a and 19b).

Fabaceae

163. *Astragalus creticus* subsp. *rumelicus* (Bunge) Maire (Fig. 20)

Gr Nomos Evrias, Eparchia Karistias: Mt Ochi, 2 km S-SW of peak Profitis Ilias, along forest road to summit area, small population on stony lime-



Fig. 20. *Astragalus creticus* subsp. *rumelicus* (photo K. Polymenakos).

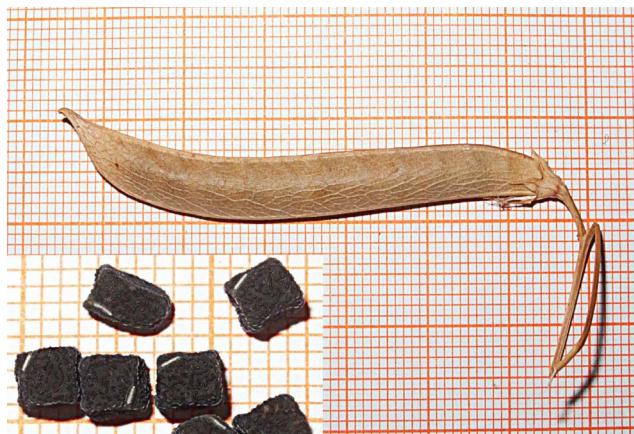


Fig. 21. *Lathyrus hierosolymitanus* (photo K. Polymenakos).



Fig. 22. *Scutellaria hastifolia* (photo K. Polymenakos).

stone slope, 840 m, 38°02'N, 24°27'E, 01.06.2024,
Polymenakos & Pantavos 1256 (ATH).

164. *Lathyrus articulatus* L.

Gr Nomos Messinias, Eparchia Kalamon: 0.6 km N of Agios Nikolaos, margins of olive grove, 5 m, 36°49'N, 22°16'E, 16.03.2024, Polymenakos obs.

165. *Lathyrus hierosolymitanus* Boiss. (Fig. 21)

Gr Nomos Messinias, Eparchia Kalamon: 0.6 km N of Agios Nikolaos, margins of olive grove, 5 m, 36°49'N, 22°16'E, 06.05.2024, Polymenakos (ripe fruit collected).

The plants were identified by their mature fruit and seeds. They differ in *L. annuus* L. which was also found in the same locality together with *L. aphaca*, *L. articulatus*, *Pisum fulvum*, *Medicago* spp. New for Peloponnisos.

Lamiaceae

166. *Scutellaria hastifolia* L. (Fig. 22)

Gr Nomos Arkadias, Eparchia Mandinias: 1.2 km W of Nestani, muddy patches along ditch passing through fallow fields, clay, 625 m, 37°36'N, 22°27'E, 18.05.2024, Polymenakos & Pantavos 1252 (ATH).

Onagraceae

167. *Epilobium brachycarpum* C. Presl (Fig. 23)

Gr Nomos & Eparchia Fthiotidos: 3.6 km SE of Stirfakas, on the new national road from Lamia to Kalambaka, 125 m, 38°56'N, 22°20'E, 21.10.2024, Polymenakos, Kofinas & Pantavos 1471 (ATH).

Apparently new for Greece. A single plant was seen and collected on the pavement of a car park. Native to N America (Canada, W & Central U.S.A., Mexico), introduced in W and Central Europe, S America (Argentina). It was first reported for Denmark as recently as 2022 and has remained rare and little noticed.

Hyacinthaceae

168. *Ornithogalum boucheanum* (Kunth) Asch.

Gr Nomos Attikis, Eparchia Megaridos: outskirts of village Oenoe, 0.2 km NW of church Agia Triada, in fallow field, clay, 315 m, 38°10'N, 23°25'E, 08.04.2023, Polymenakos & Pantavos



Fig. 23. *Epilobium brachycarpum* (photo V. Pantavos).

1186 (ATH); loc. ibid., 24.03.2024, Polymenakos & Pantavos 1240 (ATH).

In April 2018 fruit was collected and considered to belong to *Ornithogalum narbonense* L. A comparison with fruits and seeds of this species revealed differences in fruit size, seed color and exotesta. Flowering plants from the same locality were then collected in 2023 and 2024 and confirmed to be *O. boucheanum*. The Oenoe and Dervenochoria plains were searched but only a single field on the outskirts of Oenoe harboured the plant. Olive trees were planted in 2024 and the *Ornithogalum* population is now restricted to field margins.

Poaceae

169. *Phalaris arundinacea* L.

Gr Nomos Arkadias, Eparchia Mandinias: 3 km NE of Orchomenos, along the road to Kandila, muddy patches by ditch, clay, 625 m, 37°44'N, 22°20'E, 18.05.2024, Polymenakos & Pantavos 1253 (ATH).



Fig. 24. *Solanum nitidibaccatum* (photo K. Simoglou).

Report 170**Konstantinos B. Simoglou**

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Solanaceae**170. *Solanum nitidibaccatum* Bitter (Fig. 24).**

Gr Nomos & Eparchia Dramas: near the village of Leucogeia, 34 km NW of Drama, in field cultivated with potatoes, 580 m, 41°24'N, 23°52'E, 09.10.2024, K.B. Simoglou obs. (photos).

New for phytogeographical region North East. Reported from North Central, N Pindos and Kriti.

Native to temperate S America, introduced in N America, Europe, Australia and New Zealand.

**Reports 171–173****Kit Tan* & Giannis Kofinas**

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Apiaceae**171. *Seseli parnassicum* Boiss. & Heldr. (Fig. 25)**

Gr Nomos & Eparchia Karditsis: rocky limestone slopes above Pefkofyto, 1261 m, 39°19'N, 21°36'E, 23.08.2024, Kofinas obs. (photos).

Only once reported from nomos Karditsis: an old record from Mt Voutsikakis, based on a specimen collected by P.E. Sintenis on 14 August 1896. In S Pindos occurring on Mts Katafidi, Tzoumerka and Sponi (Agrafa area). There were large populations of the rare endemic *Centaurea musakii* along the same road above Pefkofyto but at a lower altitude of 965 m.

Caryophyllaceae**172. *Dianthus serratifolius* Sm. (Fig. 26)**

Gr Nomos Kikladon, Eparchia Tinou: island of Tinos, summit of Exobourgo, 640 m, 37°34'N, 25°10'E, 17.06.2023, Kofinas s.n. (herb. Kit, herb. Strid; det. A. Strid 2024).

New for the Kiklades. Upper surface of petal limb pale pink, lower surface greenish-yellow suffused pink.

Fig. 25. *Seseli parnassicum* (photo G. Kofinas).



Fig. 26. *Dianthus serratifolius* (photo G. Kofinas).

An interesting disjunction as *Dianthus serratifolius* occurs in the mountains of Peloponnisos and Attiki at altitudes between 600–2300 m. More and better-collected material needs to be examined to confirm the identification.

Dipsacaceae

173. *Lomelosia epirota* (Halász & Bald.) Greuter & Burdet (Fig. 27)

Gr Nomos Thesprotias, Eparchia Souliou: NE of Gliki, limestone slopes, rock crevices and screes, 520 m, 39°19'N, 20°36'E, 23.06.2024, Kofinas obs. (photos); loc. ibid., 27.04.2019, Kofinas obs. (photos).

New for nomos and eparchia. Previously known from only two localities in Greece – Mt Gramos, and the type locality in Nomos Prevezis (the type Baldacci 250 was described from Mt Zalongo where in 1803 a group of Souliot women with their children fell to their death to escape their enemies). Visited by several insects including *Macroglossum stellatarum*, the hummingbird hawk-moth (Sphingidae).



Fig. 27. *Lomelosia epirota* visited by hummingbird hawk-moth (photo G. Kofinas).

Reports 174–179**Kit Tan* & Sister Pachomia**

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Asteraceae

174. *Centaurea stenolepis* A. Kern.

Gr Nomos & Eparchia Serron: Mt Vrondous, SE slopes north of the military post 'Zacharias', forest openings and at roadside, 739 m, 41°11'N, 23°38'E, 23.07.2024, Sister Pachomia & al. obs. (photos).

New for Mt Vrondous. Recently reported from Mt Menikio, known from several mountains in the northeast.

175. *Inula conyzae* (Griess.) DC. (Fig. 28)

Gr Nomos & Eparchia Serron: Mt Menikio, open forest clearings near monastery, 358 m, 41°08'N, 23°37'E, 25.06.2020, Sister Pachomia & al. obs. (photos); Mt Menikio, forest clearings, 1257 m, 41°10'N, 23°45'E, 19.07.2024, Sister Pachomia & al. s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio and eparchia Serron.

Crassulaceae

176. *Sempervivum ruthenicum* Schnittsp. & C.B. Lehm. (Fig. 29)



Fig. 28. *Inula conyzae* (photo Sister Pachomia).



Fig. 29. *Sempervivum ruthenicum* (photo Sister Pachomia).

Gr Nomos & Eparchia Serron: road from village of Chionochori to sheep and goat pen on northern slopes of Mt Menikio, limestone rock crevices, 1805 m, 41°11'N, 23°43'E, 30.07.2024, Sister Pachomia & al. obs. (photos).

New for Mt Menikio, nomos and eparchia. There are few reports from the northeast, mainly in nomi Rodopis, Dramas and Evrou.

Ranunculaceae

177. *Pulsatilla halleri* subsp. *rhodopaea* (Stoj. & Stef.) K. Krause (Fig. 30)

Gr Nomos & Eparchia Serron: western slopes of Mt Menikio, meadows and open forest clearings, rocky ground, 1509 m, 41°10'N, 23°40'E, 30.07.2024, Sister Pachomia & al. obs. (photos).

New for Mt Menikio, also photographed in several places on the east side of mountain. In the northeast, reported from Mts Falakro, Orvilos and Vrondous. The plant is easily recognized by its covering of white silky hairs. It is a hardy species, flowering in rocky alpine meadows after snow melt.

Rhamnaceae

178. *Rhamnus saxatilis* subsp. *rhodopea* (Fig. 31)

Gr Nomos & Eparchia Serron: Mt Menikio, rocky limestone slopes on peak 'Stavros', east of monastery, 894 m, 41°07'N, 23°38'E, 30.07.2024, Sister Pachomia & al. obs. (photos).

New for Mt Menikio. In the northeast, reported from Mts Falakro, Pangeo and Athos, etc.



Fig. 30. *Pulsatilla halleri* subsp. *rhodopaea* (photo G. Kakanos).



Fig. 31. *Rhamnus saxatilis* subsp. *rhodopea* (photo Sister Pachomia).

Asphodelaceae

179. *Asphodeline taurica* (Pall.) Endl. (Fig. 32)

Gr Nomos & Eparchia Serron: Mt Menikio, opposite the monastery on the NE slopes near the 'Skiti of Ktitoros', abundant in stony and rocky meadows, 939 m, 41°08'N, 23°38'E, 30.07.2024, Sister Pachomia & al. obs. (photos).



Fig. 32. *Asphodeline taurica* (photo Sister Pachomia).

— Nomos Serron, Eparchia Sintikis: Mt Agistro, rocky slopes near the military outpost 'Stirigma Kalis', 918 m, 41°20'N, 23°28'E, 03.08.2020, Sister Pachomia & al. s.n. (herb. Monastery of Timios Prodromos, Serres); loc. *ibid.*, 04.08.2020, Sister Pachomia & al. obs. (photos); loc. *ibid.*, 920 m, 03.06.2022, Sister Pachomia & al. obs. (photos).
New for Mts Menikio and Agistro, eparchies and nomos. In the northeast, reported from Mts Orvilos, Achladovouno, Falakro and Pangeo.



Fig. 33. *Dittrichia viscosa*, road embankment near Trud village (photo V. Vladimirov).

ment on both sides of the road. The reported locality is a part of the adventive distribution range of the species in Bulgaria, since it is clearly connected with the road maintenance and deicing, and with the intensive vehicle traffic. So far, the taxon has been reported from the Balkan Range (*Eastern*) (Stoyanov & al. 2018), Balkan Range (*Western*), Sofa Region, Mt Sredna Gora (*Western*) (Vladimirov & Petrova 2010), Znepole Region (Vladimirov & al. 2016), Valley of River Struma (*Northern*) (Vladimirov 2023), Rho-dopi Mts (*Eastern*), Thracian Lowland, Tundzha Hilly Country (Stoyanov & al. 2022).

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Asteraceae

180. *Dittrichia graveolens* (L.) Greuter

Bu Rila Mts: embankment of the road from Razlog town to Simitly town, ca. 1010 m, 41.88331°N, 23.38243°E, 11.10.2024, coll. V. Vladimirov (SOM). First report of the species for this floristic region. Hundreds of specimens observed on the embank-

181. *Dittrichia viscosa* (L.) Greuter (Fig. 33)

Bu Thracian Lowland: embankment at the cloverleaf interchange between Thrace Motorway (Sofia – Burgas) and Plovdiv city – Trud village road, ca. 175 m, 42.213627°N, 24.730683E, 28.11.2024, coll. V. Vladimirov (SOM). A new species for this floristic region. Apparently, an alien species in this locality and possibly in Bulgaria



Fig. 34. *Helianthus tuberosus*, large stand on the right bank of Mesta River (photo V. Vladimirov).

(cf. Vladimirov 2021b). The invasion of the taxon in the reported locality is connected either with the intensive vehicle traffic or with the use of deicing chemicals (contaminated with viable seeds of the species) for road maintenance during winter, or with both pathways. So far, the species has been reported from the Znepole Region, Valley of River Struma (*Northern, Southern*), and the Rhodopi Mts (*Eastern*) (Vladimirov 2021b).

182. *Helianthus tuberosus* L.

Bu Rila Mts: S of Yakoruda town, between the road from Yakoruda town to Razlog town and River Mesta by private fields and gardens on the right bank of the river, ca. 800 m, 41.96120°N, 23.59949°E, 09.10.2024, coll. V. Vladimirov (SOM). A large stand of ca. 300–400 m² between the arable lands (Fig. 34) and several small groups of 2–3 m² each by the river. So far reported from the Black Sea Coast, Northeast Bulgaria, Danubian Plain, Forebalkan, Sofia Region, Valley of River Struma (*Northern*), Valley

of River Mesta, Mt Sredna Gora (*Western*), Rhodopi Mts (*Western, Central*), Thracian Lowland, Tundzha Hilly Country (Stoyanov & al. 2022).

Fabaceae

183. *Laburnum anagyroides* Med.

Bu Rhodopi Mts (*Central*): Smolyan town, Smolyan-ski Waterfall, slope under the trail to the waterfall, 3-4 young specimens (non-flowering yet), ca. 1000 m, 41.58240°N, 24.67685°E, 23.10.2024, V. Vladimirov (obs).

A new record for this floristic region. So far, the species has been reported from the Black Sea Coast (*Southern*) (Vladimirov & al. 2016), Black Sea Coast (*Northern*), Northeast Bulgaria, Balkan Range (*Western, Eastern*), Sofia Region, Znepole Region, Mt Sredna Gora (*Western*), Tundzha Hilly Country (Stoyanov & al. 2022), Vitosha Region (Tashev & al. 2015).

Solanaceae

184. *Solanum elaeagnifolium* Cav.



Fig. 35. *Erigeron karvinskianus* (photo G. Zarkos).

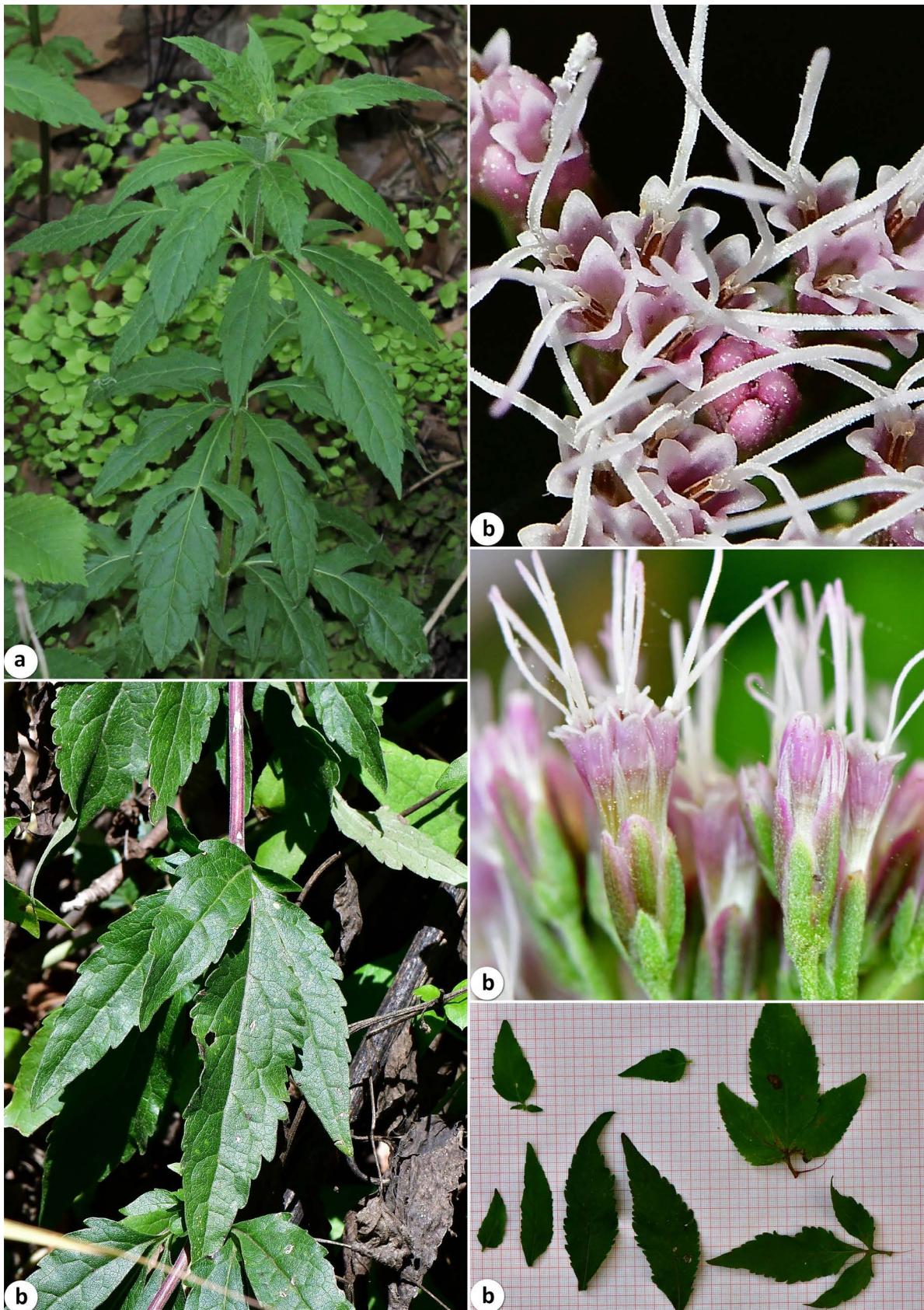


Fig. 36. *Eupatorium cannabinum*: a, from Krios river (photo G. Zarkos); b, from Enipeas river (photo K. Giannopoulos).



Fig. 37. *Eupatorium cannabinum* from Selinoundas river (photo G. Zarkos).

Bu Vitosha Region: embankment by the motorway from Sofia city to Pernik city soon after the third tunnel, ca. 840 m, 42.624595°N, 23.133203°E, 14.12.2024, coll. V. Vladimirov (SOM).

A new species for this floristic region. Four fruiting stems observed, occupying an area of about 1 m². An alien species in the Bulgarian flora, so far reported from the Valley of River Struma (*Southern*) (Vladimirov & al. 2015; Vladimirov 2020) and Rhodopi Mts. (*Central*) (Tzonev & al. 2023).

Reports 185–186

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Asteraceae

185. *Erigeron karvinskianus* DC. [*Erigeron* sect. *Karvinskia* Nesom] (Fig. 35)

Gr Nomos Fokidos, Eparchia Parnassidos: on the banks of the dried-up river Hainitsa near village of Gravia, 390 m, 38°40'N, 22°25'E, 28.10.2024, Zarkos obs. (photos).

Apparently the first report for Greece outside cultivation, there is an observation from Crete (<https://www.gbif.org/species/3147168>), but the source has not been traced. It was not mentioned in the latest and most comprehensive publication on the flora of Crete (Muer & al. 2024). Native to central and northern parts of S America (Mexico, Honduras, El Salvador, Guatemala, etc), introduced in tropical, subtropical and temperate regions worldwide where it is grown as an ornamental plant. The species is a short-lived caespitose perennial with branched stems and dense growth and makes an attractive carpet with its numerous, small, long-pedunculate capitula with white or pink ray florets. Often escaping and becoming a casual weed along roadsides and disturbed areas.

186. *Eupatorium cannabinum* L. (Figs. 36 & 37)

Gr Nomos Achaias, Eparchia Egialias: on stony banks of the river Selinoundas, 116 m, 38°11'N, 22°03'E, 04.09.2024, Zarkos obs. (photos); banks of Krios river, south of the village of Aegira, 450 m, 38°04'N, 22°50'E, 05.06.2023, Zarkos obs. (photo).

New for nomos, eparchia and north Peloponnese. *Eupatorium cannabinum* has been recorded only three times in the Peloponnese (twice from Ilia and once from Argolis). The floral morphology is very constant but the leaves display much variation in size and form. Plants from Krios river (Fig. 36a) have palmate-digitate, cannabis-like leaves, and were growing in a typical damp shady habitat. Those from the open banks of the Selinoundas river (Fig. 37) have more or less undivided, ovate or ovate-lanceolate, crenate-serrate leaves with the basal lobes much reduced or absent. Plants from Enipeas river in Ilia (Fig. 36b) have both entire and divided leaves.

The generic name is derived from the Greek word 'eupatoria', a medicine (*Agrimonia eupatoria*) Pliny attributed to Mithridates VI Eupator (132 to 62 BC), a king of Pontus.

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