

New floristic records in the Balkans: 53*

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Abstract. New chorological data are presented for 148 species and subspecies from Bulgaria (15-54, 56-59), Croatia (55), and Greece (1-14, 60-148). The taxa belong to the following families: *Alliaceae* (71, 72, 88, 140, 141), *Amaranthaceae* (1, 2), *Amaryllidaceae* (73), *Apiaceae* (15-17, 117-120), *Apocynaceae* (103, 121), *Aquifoliaceae* (104), *Araceae* (101), *Asparagaceae* (13), *Asteraceae* (3-5, 18-24, 55, 62, 63, 94, 122-124, 147), *Boraginaceae* (6, 7, 105), *Brassicaceae* (25, 106, 107, 125), *Cactaceae* (59), *Campanulaceae* (26), *Capparaceae* (8), *Caryophyllaceae* (9, 27-38, 64, 83, 95, 108), *Chenopodiaceae* (65), *Colchicaceae* (74, 75), *Convolvulaceae* (66), *Crassulaceae* (126, 127), *Cucurbitaceae* (40), *Cyperaceae* (76, 77, 142), *Dryopteridaceae* (56-58), *Equisetaceae* (115, 116), *Euphorbiaceae* (10, 41, 67, 128), *Fabaceae* (11, 43-46, 84, 96, 109), *Geraniaceae* (42, 97), *Hyacinthaceae* (14, 113, 148), *Iridaceae* (78, 79, 114, 143), *Isoetaceae* (60), *Juncaceae* (80, 89, 144), *Lamiaceae* (47-49, 130), *Lythraceae* (131), *Malvaceae* (98, 132), *Orchidaceae* (145), *Orobanchaceae* (68), *Papaveraceae* (12, 50), *Plantaginaceae* (85), *Poaceae* (54, 81, 90-93, 102, 146), *Polygalaceae* (110), *Polygonaceae* (133), *Primulaceae* (134, 135), *Ranunculaceae* (99, 100), *Rosaceae* (136), *Rubiaceae* (51, 86), *Rutaceae* (87), *Santalaceae* (137), *Scrophulariaceae* s.l. (52, 53, 138, 139), *Solanaceae* (111), *Typhaceae* (82), *Urticaceae* (69), *Valerianaceae* (112), and *Verbenaceae* (70).

A new taxon for a country is: Croatia – *Pilosella erythrochrista* (55).

The publication includes contributions by: B. Biel & Kit Tan (1-14), D.S. Dimitrov (15-54), G. Gottschlich (55), D. Ivanova, R. Natcheva & K. Lakovski (56-59), H. Michaud, L. Teulade, M.-A. Bouchet, F. Tintilier & J.-P. Brizard (60-82), K. Polymenakos, Kit Tan & V. Pantavos (83-93), A. Strid (94-102), Kit Tan & G. Kofinas (103-114), Kit Tan, Sister Pachomia & B. Biel (115-146), G. Zarkos & Kit Tan (147-148).

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

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Reports 1–14

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This is the twelfth report of new plant-records for the island of Milos (phytogeographical region Kiklades, Nomos Kikladon, Eparchia Milou) based on annual visits in 2019–2023. The 14 records listed are new for the island unless otherwise stated. Two 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 112. Occurrence on the other Kikladian islands is briefly summarized.

Amaranthaceae

1. *Amaranthus caudatus* L.

Gr NW of Adamas, in fields, fruit plantations and *Sarcopoterium phrygana* west and south of sewage plant, 30 m, 36°43'54.17"N, 24°26'15.75"E, 31.10.2023, *Biel* obs. (photo).

Reported for Naxos, Paros and Thira.

2. *Amaranthus powellii* S. Watson

Gr N of Adamas, slope with olive trees and phrygana, 15 m, 36°43'52.3"N, 24°26'38.83"E, 30.10.2023, *Biel* 23.286.

Recorded from Amorgos, second report for the Kiklades.

Asteraceae

3. *Centaurea salonitana* Vis. (Fig. 1)

Gr SW of Kato Komia, embankment of dirt road and field for fodder crops, 70 m, 36°43'16.03"N, 24°31'38.9"E, 15.06.2021, *Biel* 21.168.

Apparently new for the Kiklades (Strid 2024: map 829), literature records exist for the island. Twelve other sites noted, mainly in the northern part.

4. *Filago germanica* (L.) Huds.

Gr N-NW of Fyropotamos, fallow field and damp pasture with phrygana by dirt road, 55 m, 36°45'57.78"N, 24°25'30.03"E, 02.05.2021, *Biel* 21.031.

Recorded from most of the Kiklades.



Fig. 1. *Centaurea salonitana* (photo B. Biel).

5. *Sonchus tenerrimus* L.

Gr S of Ag. Marina, phrygana and olive terraces at road junction, 185 m, 36°41'19.05"N, 24°24'06.62"E, 04.05.2021, *Biel* obs. (photo).

Reported for the west island of the Arkadi group north of Milos, and from most of the Kiklades. Occurrences in more than 30 other sites were registered.

Boraginaceae

6. *Anchusa undulata* subsp. *sartorii* (Gusul.) Selvi & Bigazzi (Fig. 2)

Gr E of Milos airport, cultivated vegetable field and waste ground with ditch, 10 m, 36°41'52.17"N, 24°29'02.18"E, 03.05.2021, *Biel* 21.041; N of Adamas, waste ground and fields at sulphur spring, at junction of dirt roads, 20 m, 36°43'52.27"N, 24°26'53.18"E, 26.03.2022, *Biel* 22.029.



Fig. 2. *Anchusa undulata* subsp. *sartorii* (photo B. Biel).

An unpublished report by H. Kalheber; recorded for Tinos, Paros and Naxos (Strid 2024: map 1396). Endemic to Greece. Fourteen other sites were noted on the eastern part of island. *Anchusa undulata* subsp. *hybrida* is more commonly encountered and specimens intermediate with this have been observed.

7. *Myosotis ramosissima* Rochel (Fig. 3)

Gr N of Profitis Ilias, below house at saddle, olive terraces with phrygana, 160 m, 36°41'43.2"N, 24°22'43.06"E, 24.03.2023, *Biel* 23.096.

Reported for most of the Kiklades.

Capparaceae

8. *Capparis spinosa* subsp. *aegyptia* (Lam.) Kit Tan & Runemark

Gr W-SW of Embourios, *Sarcopoterium* phrygana and waste ground on quarry slopes, 85 m, 36°41'50.82"N, 24°21'22.66"E, 23.06.2021, *Biel* obs. (photo).

Reported from Amorgos, Thira and small islet of Glaros, east of Kinaros. Five other sites were noted N of Plaka, S of Tripiti, N of Adamas, S of Psathadika and N of Zefyria.

Caryophyllaceae

9. *Stellaria ruderalis* Lepší & al.

Gr N-NE of Chodro Vouno, crevices and at edge of rocky outcrops on steep slope with phrygana, 450 m, 36°41'09.87"N, 24°22'26.83"E, 30.03.2022, *Biel* 22.073; W margin of Achivadolimni, rocky slopes and wet area near Ag. Konstantinos, 5 m, 36°41'15.62"N, 24°26'24.03"E, 31.03.2022, *Biel* 22.081a.

Reported from central (Sifnos, Paros, Naxos) and northern (Andros, Tinos) Kiklades.

Euphorbiaceae

10. *Euphorbia prostrata* Aiton (Fig. 4)

Gr Adamas, eastern part of village, parking area in valley, 5 m, 36°43'34.52"N, 24°26'52.32"E, 27.10.2023, *Biel* 23.273; Triovalasos, SE edge of village, cereal and vegetable fields in valley above road crossing to Pera Triovalasos, 110 m, 36°44'36.59"N, 24°26'07.04"E, 31.10.2023, *Biel* 23.288; W of Adamas, parking area on sandy beach, 2 m, 36°43'30.44"N, 24°26'31.8"E, 04.11.2023, *Biel* 23.292.

Reported from Iraklia and Schinoussa. Two other sites noted S of Adamas and W of Pachena.



Fig. 3. *Myosotis ramosissima* (photo B. Biel).



Fig. 4. *Euphorbia prostrata* (photo B. Biel).

Fabaceae

11. *Dorycnium hirsutum* (L.) Ser.

Gr S of Ag. Marina, terraced phrygana slope with shrubs and olive trees, along old path, 250 m, 36°41'05.68"N, 24°24'05.19"E, 11.05.2022, *Biel* 22.252.

Known from several islands in central and northern Kiklades. Additional site noted E of Ag. Marina.

Papaveraceae

12. *Fumaria petteri* Rchb.

Gr NE margin of Zefyria, waste ground and fallow field by dirt road, 15 m, 36°42'04.61"N, 24°29'26.27"E, 19.03.2023, *Biel* 23.050.

Reported for most of the Kiklades.

Asparagaceae

13. *Asparagus officinalis* L.

Gr NW of Adamas, stream bed with scrub, 30 m, 36°43'54.17"N, 24°26'15.75"E, 28.03.2022, *Biel* obs. (photo).

New for the Kiklades. No commercial *Asparagus* cultivation is carried out on Milos.

Hyacinthaceae

14. *Ornithogalum collinum* Guss.

Gr SW of Ag. Marina, above dirt track on low slopes, *Erica* - *Calicotome* phrygana and pasture, 275 m, 36°41'05.98"N, 24°23'42.32"E, 18.03.2023, *Biel* 23.037.

Reported from central and northern Kiklades. Also noted N of Prof. Ilias.

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

Reports 15–54

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Apiaceae

15. *Peucedanum austriacum* (Jacq.) Koch

Bu Sofia region: Seslavtsi suburb of Sofia, limestone terrain, GN04, 15.07.2023, coll. & det. *D. Dimitrov* (SOM 178 525).

16. *Peucedanum carvifolium* Vill.

Bu Valley of River Struma (*Northern*): Stobski Pyramidi Nature Landmark, FM76, 30.06.2023, coll. & det. *D. Dimitrov*, (SOM 178 528).

17. *Seseli pallasii* Besser

Bu Balkan Range (*Western*): Mt Murgashka, on calcareous rocky places above Negushevo village, Gorna Malina Municipality, GN23, 04.09.2022, coll. & det. *D. Dimitrov* (SOM 178 527).

Asteraceae**18. *Achillea aspleniifolia* Vent.**

Bu Northeast Bulgaria: near Tsenovo village on a damp meadow left of the road from Byala town, 08.05.2023, LJ92, coll. & det. *D. Dimitrov* (SOM 178 529).

19. *Arctium nemorosum* Lej.

Bu Rhodopi Mts (*Central*): Trigrad gorge, Osmanov Vir locality, KG80, 15.06.2023, coll. & det. *D. Dimitrov*, (SOM 178 530); On limestone rocks under the arch of the natural phenomenon Chudnite Mostove, KG92, 25.06.2023, coll. & det. *D. Dimitrov* (SOM 178 531).

20. *Carduus thracicus* (Velen.) Hayek

Bu Sofia Region: Seslavtsi suburb of Sofia, limestone rocks, GN04, 15.07.2023, coll. & det. *D. Dimitrov* (SOM 178 532).

21. *Centaurea affinis* subsp. *candida* (Velen.) Dostál

Bu Rila Mts: near the rock of Saint Ivan Rilski, FM76, 03.06.2023, coll. & det. *D. Dimitrov* (SOM 178 533).

22. *Jurinea mollis* subsp. *anatolica* (Boiss.) Stoj. & Stef.

Bu Rhodopi Mts (*Western*): Mt Dabrash, limestone terrains above Tuhovishta village, KF59, 27.06.2023, coll. & det. *D. Dimitrov* (SOM 178 536).

Accompanying species were *Himantoglossum jankae* & *Lotus aegaeus*.

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

Bu Rhodopi Mts (*Western*): Mt Dabrash, in a garden in Tuhovishta village, KF59, 27.06.2023, coll. & det. *D. Dimitrov* (SOM 178 537).

24. *Pilosella caespitosa* (Dumort.) P.D. Sell & C. West

Bu Northeast Bulgaria: near Tsenovo village right of road from Byala town, LJ92, 08.05.2023, coll. & det. *D. Dimitrov* (SOM 178 534).

Brassicaceae**25. *Lunaria rediviva* L.**

Bu Forebalkan (*Eastern*): ecotrail Lukovit – Zlatna Panega, KH68, 17.07.2023, coll. & det. *D. Dimitrov* (SOM 178543).

Campanulaceae**26. *Campanula glomerata* subsp. *hispida* (Witasek) Hayek**

Bu Foebalkan (*Eastern*): ecotrail Lukovit – Zlatna Panega, KH68, 17.07.2023, coll. & det. *D. Dimitrov* (SOM 178 544).

Caryophyllaceae**27. *Cerastium fontanum* Baumg.**

Bu Rhodopi Mts (*Central*): near the river in Yagodina village, Borino Municipality, KG71, 08.06.2023, coll. & det. *D. Dimitrov* (SOM 178 547).

28. *Cerastium gracile* Dufour

Bu Northeast Bulgaria: old quarry near Beltsov village, Tsenovo Municipality, LJ92, 05.05.2023, coll. & det. *D. Dimitrov* (SOM 178 548).

29. *Cerastium luridum* Guss.

Bu Northeast Bulgaria: old limestone quarry near Beltsov village, Tsenovo Municipality, LJ92, 06.05.2023, coll. & det. *D. Dimitrov* (SOM 178 550).

30. *Cerastium roeseri* Boiss. & Heldr.

Bu Rhodopi Mts (*Western*): Mt Dabrash, above Tuhovishta village, KF59, 27.06.2023, coll. & det. *D. Dimitrov* (SOM 178 551).

31. *Cerastium tenoreanum* Ser.

Bu Northeast Bulgaria: under hill Lipite E of Tsenovo village, LJ92, 05.05.2023, coll. & det. *D. Dimitrov* (SOM 178 552).

32. *Dianthus drenowskyanus* Rech. f.

Bu Pirin Mts (*Southern*): on limestone terrain above

the road by the hotel Mentor Resort near Gaytaninovo village, Hadzhidimovo Municipality, GL29, 28.06.2023, coll. & det. *D. Dimitrov* (SOM 178 553).

33. *Minuartia attica* (Boiss. & Spruner) Vierh.

Bu Rila Mts: under rock of Saint Ivan Rilski, FM76, 28.06.2023, coll. & det. *D. Dimitrov* (SOM 178 554).

34. *Minuartia rhodopaea* (Degen) Kožuharov & Kuzmanov

Bu Northeast Bulgaria: near Beltsov village, Tsenovo Municipality, right of the road from Byala town, LJ92, 24.05.2023, coll. & det. *D. Dimitrov* (SOM 178 555).

35. *Scleranthus neglectus* Rochel ex Baumg.

Bu Znepole Region: on limestone gravel places near Nedelkovo village, Tran Municipality, FN43, 10.06.2023, coll. & det. *D. Dimitrov* (SOM 178 557).

36. *Scleranthus polycarpus* L.

Bu Northeast Bulgaria: S of Beltsov village, Tsenovo Municipality, LJ92, above right riverbank of river Yantra, 06.05.2023, coll. & det. *D. Dimitrov* (SOM 178 558).

37. *Silene exaltata* Friv.

Bu Valley of River Struma (*Northern*): W of Rila town, FM76, 09.2022, coll. & det. *D. Dimitrov* (SOM 178 560).

38. *Silene nutans* L.

Bu Northeast Bulgaria: S of Beltsov village, Tsenovo Municipality, KJ92, 05.05.2023, coll. & det. *D. Dimitrov* (SOM 178 561).

Cucurbitaceae

39. *Sicyos angulatus* L.

Bu Forebalkan (*Eastern*): ecotrail Lukovit – Zlatna Panega, KH68, 17.07.2023, coll. & det. *D. Dimitrov* (SOM 178 563).

Cuscutaceae

40. *Cuscuta planiflora* Ten.

Bu Sofia Refion: Seslavtsi suburb of Sofia, limestone,

GN04, 15.07.2023, coll. & det. *D. Dimitrov* (SOM 178 564).

Euphorbiaceae

41. *Euphorbia palustris* L.

Bu Northeast Bulgaria: above the right bank of river Yantra near old limestone quarry, LJ92, 05.05.2023, coll. & det. *D. Dimitrov* (SOM 178 567).

Geraniaceae

42. *Geranium brutium* Gasp.

Bu Northeast Bulgaria: under bushes and forest above the right bank of river Yantra near Tsenovo village, KJ92, 06.05.2023, coll. & det. *D. Dimitrov* (SOM 178 569);

— Valley of River Struma (*Southern*): city park of Sandanski, FM90, 04.02.2023, coll. & det. *D. Dimitrov* (SOM 178 570).

Fabaceae

43. *Chamaecytisus polytrichus* (M. Bieb.) Rothm.

Bu Northeast Bulgaria: near an old limestone quarry NE of Tsenovo village, KJ92, 05.05.2023, coll. & det. *D. Dimitrov* (SOM 178 574).

44. *Chamaecytisus supinus* subsp. *velenovskiyi* (Hayek) Kuzmanov

Bu Balkan Range (*Western*): on calcareous rocks above Negushevo village, Gorna Malina Municipality, GN23, 04.09.2022, coll. & det. *D. Dimitrov* (SOM 178 575).

45. *Trifolium alexandrinum* L.

Bu Forebalkan (*Eastern*): ecotrail Lukovit – Zlatna Panega, KH68, 17.07.2023, coll. & det. *D. Dimitrov* (SOM 178 577).

46. *Vicia laeta* L.

Bu Northeast Bulgaria: meadows near Tsenovo village above the right bank of river Yantra, KJ92, 06.06.2023, coll. & det. *D. Dimitrov* (SOM 178 580);

— Danubian Plain: pasture with electric fence near Gorna Studena village, KJ92, 04.05.2023, coll. & det. *D. Dimitrov* (SOM 178 579).

Lamiaceae**47. *Stachys recta* subsp. *subcrenata* (Vis.) Briq.**

Bu Northeast Bulgaria: limestone steep slopes above the right bank of river Yantra near Tsenovo village, KJ92, 24.05.2023, coll. & det. *D. Dimitrov* (SOM 178 581).

48. *Thymus longicaulis* C. Presl

Bu Northeast Bulgaria: grassy places on calcareous terrain above the right bank of river Yantra near Tsenovo village, KJ92, 08.05.2023, coll. & det. *D. Dimitrov* (SOM 178 582).

49. *Thymus vandasii* Velen.

Bu Northeast Bulgaria: on a pasture with electric fence near Beltsov village, Tsenovo Municipality, 07.05.2023, coll. & det. *D. Dimitrov* (SOM 178 583).

Papaveraceae**50. *Fumaria densiflora* DC.**

Bu Northeast Bulgaria: grassy places above river Yantra E of Tsenovo village, KJ92, 16.04.2023, coll. & det. *D. Dimitrov* (SOM 178 586);
— Rhodopi Mts (*Central*): near Bachkovo Monastery, LG24, 08.06.2023, coll. & det. *D. Dimitrov* (SOM 178 587).

Rubiaceae**51. *Asperula rumelica* Boiss.**

Bu Valley of River Struma (*Northern*): W of Rila town, FM76, 09.2022, coll. & det. *D. Dimitrov* (SOM 178 615).

Scrophulariaceae**52. *Verbascum humile* Janka**

Bu Pirin Mts (*Southern*): on limestone terrain above the road near hotel Mentor Resort before Gaytaninovo village, Hadzhidimovo Municipality, GL29, 27.06.2023, coll. & det. *D. Dimitrov* (SOM 178 617).

53. *Veronica acinifolia* L.

Bu Northeast Bulgaria: on limestone terrain near an old quarry near Beltsov village, Tsenovo Municipality, KJ92, 05.05.2023, coll. & det. *D. Dimitrov* (SOM 178 618); on grassy places left on the

road to from Byala town to Tsenovo village, KJ92, 23.05.2023, coll. & det. *D. Dimitrov* (SOM 178 619).

Poaceae**54. *Festuca heteromalla* Pourr. (syn. *Festuca diffusa* Dumort.)**

Bu Sofia Region: Sofia city, near the tram stop at the intersection of Shipchenski Prohod Blvd. and Nikolay Kopernik street, FN93, 20.06.2023, coll. & det. *D. Dimitrov* (SOM 178 590).

Report 55**Günter Gottschlich**

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Asteraceae**55. *Pilosella erythrochrista* (Nägeli & Peter) S. Bräut. & Greuter**

≡ *Hieracium erythrochristum* (Nägeli & Peter) Üksip
= *Hieracium arvicola* Nägeli & Peter, nom. illeg.

Ct Primorje-Gorski kotar, Velika Kapela: slopes N of Begovo Razdolje (*ca.* 4 km E of Mrkopalje), south-eastern part of Jukina kosa, meadows and pastures, 1080–1160 m, VL9217, sq. 0655/3, 14.6.2001, *W. Guterma*n 36364 (WU, Herbarium Gottschlich 83266).

New for Croatia. *Pilosella erythrochrista* was described from Bavaria, where the species was frequently observed as a hybrid between *P. caespitosa* and *P. piloselloides* in wet meadows at the end of the 19th century. The populations have declined sharply as a result of melioration. Further occurrences are known from Austria, Czech Republic, Estonia, Hungary, Poland, the Russian Federation, Romania, Slovakia, Switzerland, and Ukraine. These may also include fixed species.

In its morphological characteristics the specimen from Croatia (Fig. 5) shows clearly the intermediate position between *P. caespitosum* (dark bracts, black glandular hairs, stiff simple hairs with a long black base, stellate hairs on the lower surface of the leaves) (Fig. 6) and *P. piloselloides* (+/- stiff, blue-green and lanceolate basal leaves).



Fig. 5. *Pilosella erythrochrista* – whole plant



Fig. 6. *Pilosella erythrochrusta* – capitula

Reports 56–59

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Dryopteridaceae

56. *Dryopteris carthusiana* (Vill.) H.P. Fuchs

Bu Mt Sredna Gora (*Western*): river Byala Reka, W of Koprivshitsa town, river bank in a spruce forest, 1080 m, 42°38'12.8"N, 24°20'34.4"E, 15.03.2024, coll. K. Lakovski (SOM 178520).

This is the first report of *D. carthusiana* for the floristic region of Mt Sredna Gora. The species has often been indicated in the Bulgarian literature sources as very common, but it was generally confused with the other two representatives of the group, *D. dilatata* and *D. expansa*. *Dryopteris carthusiana* is distributed in the Western Forebalkan, Vitosha Region (Mt Vitosha), Northern Pirin Mts, Rila Mts, Western and Central Rhodopi Mts (Ivanova 2021; Lakovski & Ivanova 2023).

57. *Dryopteris dilatata* (Hoffm.) A. Gray

Bu Mt Sredna Gora (*Western*): river Byala Reka, W of Koprivshitsa town, steep river bank in a spruce forest, 1085 m, 42°38'12.7"N, 24°20'35.5"E, 15.03.2024, coll. K. Lakovski (SOM 178521).

This is a new species for the floristic region of Mt Sredna Gora. It is also known from the Western Forebalkan, Western and Central Balkan Range, Vitosha Region (Mt Vitosha), Mt Belasitsa, Northern Pirin Mts, Rila Mts, Western and Central Rhodopi Mts (Ivanova 2021; Lakovski & Ivanova 2023).

58. *Polystichum aculeatum* (L.) Roth

Bu Mt Sredna Gora (*Western*): river Byala Reka, W of Koprivshitsa town, steep river bank in a spruce forest, 1090 m, 42°38'12.6"N, 24°20'35.0"E, 15.03.2024, coll. K. Lakovski (SOM 178522); between Sakardzha peak and Lisets peak, periphery of beech forest, 1340 m, 42°34'30.7"N, 24°07'51.5"E, 14.03.2024, K. Lakovski obs.

Polystichum aculeatum is a widely distributed fern in the Bulgarian flora. Nevertheless, only two literature sources indicate its presence in Sredna Gora [in Kriva Reka valley, along Shiriney river, reported by Toshev (1903); and in the forests in Koprivshitski Balkan, reported by Urumov (1901)]. However, in the Bulgarian herbaria, there are no deposited herbarium specimens from Mt Sredna Gora. Thus, the present records are considered the first confirmed reports for this floristic region.

Cactaceae

59. *Opuntia humifusa* (Raf.) Raf.

Bu Forebalkan (*Western*): in the land of Gorna Bela Rechka village, Varshets Municipality, stony clearing in *Carpinus orientalis*/*Crataegus monogyna*/*Cornus mas* forest, 893 m, FN98, 43.1893417°N, 23.3644733°E, 04.2018, K. Lakovski obs. (Fig. 7); l.c., 03.2019, K. Lakovski obs.; Kamenna Riksa village, Georgi Damyanovo Municipality, Montana District, stony pasture on the S facing slope of hill about 100 m far from the last houses of the village, 540 m, FP61, 43°27'34.5"N, 23°01'55.7"E, 05.2023, K. Lakovski obs.

— Valley of River Struma (*Southern*): SE of Pchelina hill, N of General Todorov village, Petrich



Fig. 7. *Opuntia humifusa* above Gorna Bela Rechka village (photo K. Lakovski).



Fig. 8. *Opuntia humifusa* near General Todorov village (photo D. Ivanova).

Municipality, Blagoevgrad District, along the S facing slope of an old abandoned irrigation canal, in open places between *Paliurus spina-christi* shrubs, 105 m, FL99, 41.459812°N, 23.279091°E, 16.02.2024, R. Natcheva & D. Ivanova obs. (Fig. 8).

Opuntia humifusa is reported for the first time from both Western Forebalkan and Southern Valley of River Struma floristic regions. The population in Kamenna Riksa village is more than 10-year-old, fruiting, probably a garden escape or originating from thrown away fragments.

The locality above Gorna Bela Rechka village is the highest situated in Bulgaria so far. Only two individuals were present, but they survive successfully the winter frosts and were observed for several years. Due to global warming, more populations can be expected to be found at higher altitudes in suitable habitats in the future.

The population above General Todorov village covers a total area of ca. 7.5 m² along a 25 m long segment of the irrigation canal. It comprises several variously sized groups from 20 × 20 cm to 200 × 200 cm. The grazing in the area is a premise for further spread of the species. It is a potential threat for the rich local flora.

Opuntia humifusa is considered an invasive species in Bulgaria. It is distributed in many floristic regions: Black Sea Coast, Northeast Bulgaria, Forebalkan (*Eastern*), Balkan Range (*Eastern*), Valley of River Struma, Pirin Mts (*Southern*), Mt Sredna Gora (*Western*), Rhodopi Mts (*Central*), Thracian Lowland, Tundzha Hilly Country, and Mt Strandzha (Petrova & al. 2012; Raycheva & Stoyanov 2018, Zahariev 2023).

Reports 60–82

Henri Michaud, Laure Teulade, Michel-Ange Bouchet*, Frédéric Tintilier & Jean-Pierre Brizard

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New chorological data are presented for 23 species on 14 Greek islands. The taxonomic treatment follows Strid (2024).

Isoetaceae

60. *Isoetes durieui* Bory

Gr Nomos Kikladon: Serifos, W of Chora Serifos, along the stream near the old wash house, 175 m, 37.156134°N, 24.501097°E, 19.10.2021, Bouchet obs. New for Serifos. *Isoetes histrix* was collected by Biel on 27.02.2004, S Livadi (det. Runemark, 2005; Strid, pers. comm.).

Apiaceae

61. *Oenanthe prolifera* L. (Fig. 9)

Gr Nomos Samou: Samos, wet meadow, south of Samos airport, 2 m, 37.684107°N, 26.905841°E, 20.04.2022, Tintilier obs. (photos).

Second record from island. First collected on 18.04.2017, near Prodrumus N-NE of Mytilini, 250 m, traditionally managed fields, partly wet, with many weeds (Strid 58842 in private herb.).

Asteraceae

62. *Crepis pusilla* (Sommier) Merxm.

Gr Nomos Chiou: Chios, east of Delfini, 10 m, 38.48865°N, 26.11898°E, 26.03.2019, Bouchet obs. New for Chios. Species included in the European Habitats Directive Annexes II & IV and protected under Greek legislation.

63. *Echinops graecus* Mill.

Gr Nomos Kikladon: Paros, cultivated plot at Profitis Ilias, north of Prodromos, 30 m, 37.06388°N, 25.24002°E, 18.10.2022, Bouchet obs.

First recorded on Paros by Tournefort (1700), not reported since on island.

Caryophyllaceae

64. *Velezia quadridentata* Sm.

Gr Nomos Kikladon: Folegandros, in phrygana on N-facing Agios Eleftherios slope, 296 m, 36.62127°N, 24.91563°E, 21.10.2023, Bouchet obs.

New for Folegandros. A small population on slope.

Chenopodiaceae

65. *Noaea mucronata* (Forssk.) Asch. & Schweinf. (Fig. 10)

Gr Nomos Kikladon: Denousa, in phrygana, on Stavros exit next to northbound trail no.1, 58 m, 37.10778°N, 25.79761°E, 12.10.2022, Brizard obs. (photos).



Fig. 9. *Oenanthe prolifera* (photo F. Tintilier).



Fig. 10. *Noaea mucronata* (photo J.-P. Brizard).



Fig. 11. *Cressa cretica* (photo L. Teulade).

New for Denousa, protected under Greek legislation. Occurring on several East Aegean islands, but rare and vanishing further west (Strid, pers. comm.).

Convolvulaceae

66. *Cressa cretica* L. (Fig. 11)

Gr Nomos Kikladon: Kimolos, in street, at the harbour, 1 m, 36.78683°N, 24.57868°E, 26.10.2021, Teulade obs. (photo).

New for Kimolos.

Euphorbiaceae

67. *Euphorbia prostrata* Aiton

Gr Nomos Kikladon: Schinoussa, below Grispos hotel, north of Tsigouri beach, 13 m, 36.86613°N, 25.51591°E, 24.10.2023, Bouchet obs.

New for Schinoussa. Xenophyte from N America. Spreading in Europe.

Orobanchaceae

68. *Phelipanche olbiensis* (Coss.) Carlón & al.

Gr Nomos Kikladon: Naxos, Alyko dune, south of Glyfada pool, 2 m, 36.988607°N, 25.392474°E, 13.04.2023, Michaud obs.

New for Naxos.

Urticaceae

69. *Urtica membranacea* Poir.

Gr Nomos Kikladon: Naxos, SE of Chora, along a rural path near Archaion Kallos, 2 m, 37.09463°N, 25.38293°E, 08.04.2023, Bouchet obs.

New for Naxos.

Verbenaceae

70. *Vitex agnus-castus* L.

Gr Nomos Kikladon: Folegandros, in the thalweg (watercourse) going down to Ligaria beach, 14 m,

36.66271°N, 24.85509°E, 21.10.2023, *Bouchet* obs.
New for Folegandros. Two plants found in temporary
stream near Ligaria beach.

Alliaceae

71. *Allium commutatum* Guss.

Gr Nomos Kikladon: Schinoussa, north of Tsigouri
beach, 36.86581°N, 25.51622°E, 1 m, 24.10.2023,
Michaud obs.
New for Schinoussa.

72. *Allium trifoliatum* Cirillo

Gr Nomos Lesvou: Lesvos, NW of Pamfila, spreading
like a weed in an olive grove, 30 m, 39.15953°N,
26.51425°E, 18.04.2022, *Brizard* obs.
New for Lesvos.

Amaryllidaceae

73. *Pancratium maritimum* L.

Gr Nomos Kikladon: Folegandros, Ligaria beach, 2 m,
36.66271°N, 24.85509°E, 21.10.2023, *Bouchet* obs.
New for Folegandros.

Colchicaceae

74. *Colchicum pusillum* Sieber (Fig. 12)

Gr Nomos Kikladon: Ios, along path going to Pyrg-
hos summit, highest point on island, 390 m,
36.73196°N, 25.33888°E, 20.10.2022, *Bouchet* obs.
— Schinoussa, in phrygana on SE-facing Vardies
slope, 60 m, 36.87821°N, 25.51792°E, 23.10.2023,
Bouchet obs.

First recorded on Ios by Tournefort (1700) during his
“Voyage into the Levant”. Not reported since on is-
land. New for Schinoussa.

75. *Colchicum variegatum* L. (Fig. 13)

Gr Nomos Kikladon: Schinoussa, in phrygana south of
Gerolimnionas beach, 12 m, 36.88542°N, 25.51292°E,
and along path leading to Fikio beach, 25 m,
36.88428°N, 25.52156°E, 24.10.2023, *Bouchet* obs.

First recorded on Schinoussa by Tournefort (1700)
during his “Voyage into the Levant”. Not recorded
since on island.

Cyperaceae

**76. *Pycnus flavidus* (Retz.) T. Koyama [syn.: *Cyperus
flavidus* Retz.]**



Fig. 12. *Colchicum pusillum* (photo M.-A. Bouchet).



Fig. 13. *Colchicum variegatum* (photo M.-A. Bouchet).

Gr Nomos Kikladon: Naxos, edge of reservoir
on stream near Eggares, 30 m, 37.13016°N,
25.43827°E, 11.10.2020, *Bouchet* CB6789 (CB-
NMed).

New for Naxos. A voucher is deposited in the her-
barium of National Mediterranean Institute for Plant
Conservation (CBNMed) in Hyères, France. The
closely related *P. flavescens* (L.) Rchb. has been re-
ported from the same locality – Engares, feuchte Ba-
chufer und Phrygana, 8.10.1992, *Böhling* 1944 (herb.
Böhling).

77. *Eleocharis uniglumis* (Link) Schult.

Gr Nomos Lesvou: Lesvos, salt marshes at Kal-
loni, 1 m, 39.21109°N, 26.24335°E, 15.04.2022,
Bouchet obs.
New for Lesvos.

Iridaceae**78. *Romulea bulbocodium* (L.) Sebast. & Mauri**

Gr Nomos Kikladon: Antiparos, along path between Ligaria and Sostis beaches, 4 m, 36.95599°N, 25.06588°E, 17.10.2022, *Bouchet* obs.

New for Antiparos. Bulbs were collected and grown at the National Mediterranean Institute for Plant Conservation (CBNMed).

79. *Romulea ramiflora* Ten.

Gr Nomos Kikladon: Ios, between Profitis Ilias and Bouris, 89 m, 36.74228°N, 25.28468°E, 20.10.2022, *Bouchet* obs.

— Ano Koufonissia, near Pori beach, 7 m, 36.94640°N, 25.61900°E, 07.04.2023, *Bouchet* obs.
New for both Ios and Koufonision.



Fig. 14. *Juncus fontanesii* subsp. *pyramidatus* (photo M.-A. Bouchet).

Juncaceae**80. *Juncus fontanesii* subsp. *pyramidatus* (Laharpe) Snogerup (Fig. 14)**

Gr Nomos Kikladon: Naxos, edge of reservoir on stream near Eggares, 30 m, 37.13016°N, 25.43827°E, 11.10.2020, *Bouchet* CB6789 (CB-NMed).

New for the Kiklades. Voucher deposited in the herbarium of National Mediterranean Institute for Plant Conservation (CBNMed) in Hyères, France.

Poaceae**81. *Maillea crypsoides* (d'Urv.) Boiss.**

Gr Nomos Kikladon: Amorgos, Kalotaritissa sandy beach, 1 m, 36.79242°N, 25.74304°E, 04.04.2023, *Bouchet* obs.

New for Amorgos.

Typhaceae**82. *Typha latifolia* L.**

Gr Nomos Kikladon: Antiparos, phrygana on beach of Livadi, in depression, 2 m, 36.96188°N, 25.06437°E, 17.10.2022, *Bouchet* obs.

New for Antiparos. Only a few previous records from the Aegean islands (Strid, pers. comm.).

Acknowledgements. We thank Arne Strid and Kit Tan for their kind help.

Reports 83–93**Kostas Polymenakos, Kit Tan* & Vasilis Pantavos**

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The taxonomy and nomenclature adopted here follows that of Strid (2024) excepting *Allium balcanicum*.

Caryophyllaceae**83. *Sagina apetala* Ard.**

Gr Nomos & Eparchia Attikis: Mt Parnitha, 0.3 km NW of location “Klimendi”, muddy patches at seasonally flooded limestone flat, 810 m, 38°09'N, 23°39'E, 22.04.2023, *Polymenakos* & *Pantavos* 1189 (ATH).

New for Mt Parnitha.

Fabaceae**84. *Trifolium strictum* L.**

Gr Nomos Fokidos, Eparchia Parnassidos: Mt Parnassos, 0.95 km NE of the chapel Agios Kosmas, damp meadow by stream, limestone, 1305 m, 38°36'N, 22°27'E, 04.07.2023, *Polymenakos* & *Pantavos* s.n. (ATH).

New for Mt Parnassos and nomos Fokidos. From Sterea Ellas, reported only from Evritanias. A record from Attikis (Spanou 2010: 95) has not yet been confirmed.

Plantaginaceae**85. *Plantago coronopus* L.**

Gr Nomos Viotias, Eparchia Thivon: Mt Parnitha, 3 km W of Stefani, along the road from Fili to Skourta, damp places at road side, limestone, 645 m, 38°10'N, 23°34'E, 27.05.2023, *Polymenakos* & *Pantavos* 1198 (ATH).

New for Mt Parnitha, otherwise well-documented from Viotias.

Rubiaceae**86. *Crucianella graeca* Boiss.**

Gr Nomos Attikis, Eparchia Megaridos: Mt Kitheronas, Kiafa Fichthi, stony limestone slopes, 840 m, 38°10'N, 23°18'E, 05.06.2023, *Polymenakos* & *Pantavos* 1199 (ATH).

New for Mt Kitheronas.

Rutaceae**87. *Ruta montana* (L.) L. (Fig. 15)**

Gr Nomos Fthiotidos, Eparchia Lokridos: 1.5 km NW of Kato Tithorea, along the main road to Amfiklia, edge of *Quercus coccifera* scrub, road side, limestone, 165 m, 38°36'N, 22°41'E, 27.06.2023, *Polymenakos* & *Pantavos* 1201 (ATH).



Fig. 15. *Ruta montana* (photo V. Pantavos).



Fig. 16. *Allium balcanicum* (photo V. Pantavos).

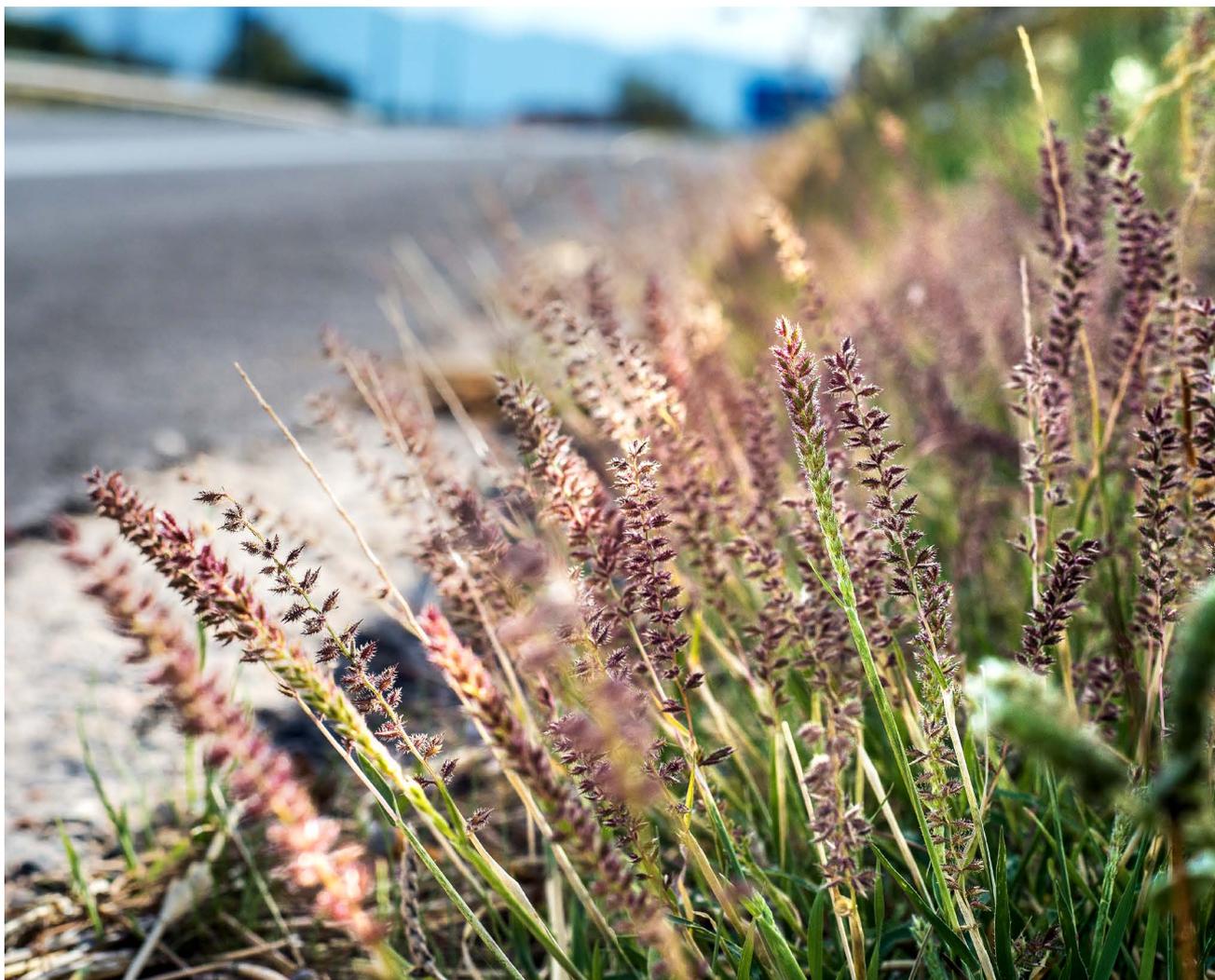


Fig. 17. *Tragus racemosus* (photo V. Pantavos).

New for eparchia Lokridos. Rare in Greece, reported only from Fthiotidos and E Aegean island of Lesvos.

Alliaceae

88. *Allium balcanicum* Brullo, Pavone & Salmeri (Fig. 16)

Gr Nomos Fthiotidos, Eparchia Lokridos: Mt Kalidromo, stony west slopes of peak Paleoailias, openings in macchie with scattered *Pinus halepensis*, serpentine, 820 m, 38°41'N, 22°42'E, 22.10.2023, *Polymenakos & Pantavos* 1233 (ATH).

Recorded as *A. cupanii* Raf. in August 1982 from same locality (*Hartvig & al.* 10528, C).

Juncaceae

89. *Luzula campestris* (L.) DC.

Gr Nomos Fokidos, Eparchia Parnassidos: Mt Parnassos, 1 km E-SE of the chapel Agios Kosmas, in openings of *Abies* forest, limestone, 1365 m, 38°35'N, 22°27'E, 04.07.2023, *Polymenakos & Pantavos* 1206 (ATH).

New for Mt Parnassos, nomos and eparchia.

Poaceae

90. *Glyceria nemoralis* (R. Uechtr.) R. Uechtr. & Körn.

Gr Nomos & Eparchia Karditsis: Agrafa mts, west slopes of peak Martsa, 2.75 km SE of village Neraida, damp, muddy places along stream in *Abies* forest, limestone, 1215 m, 39°07'N, 21°48'E, 14.08.2023, *Polymenakos* 1221 (ATH).

New for nomos and eparchia, possibly in nomos Evritanias where it should be looked for.

91. *Milium effusum* L. subsp. *effusum*

Gr Nomos & Eparchia Karditsis: Agrafa mts, west slopes of peak Martsa, 2.6 km SE of village Neraida, shady places at roadside, edge of *Abies* forest, limestone, 1210 m, 39°07'N, 21°48'E, 14.08.2023, *Polymenakos* 1225 (ATH).

— Nomos & Eparchia Evritanias: Mt Timfristos, 3.4 km NE of Ag. Charalambos, damp places along stream “Sermentzeli”, 1310 m, 39°01'N, 21°51'E, 13.08.2023, *Polymenakos* obs. (seed collected).

New for both nomi and eparchies.

92. *Poa hybrida* Gaudin

Gr Nomos Evvias, Eparchia Chalkidos: Mt Xirovouni, western slopes, 3.6 km NE of Steni, damp, shady places at road sides, limestone, 870 m, 38°35'N, 23°52'E, 12.07.2023, *Polymenakos* & *Pantavos* 1208 (ATH).

New for Evvia, southernmost occurrence in Greece.

93. *Tragus racemosus* (L.) All. (Fig. 17)

Gr Nomos & Eparchia Attikis: 1.4 km E of Polidendri, at road sides close to the national road to Lamia, limestone, 300 m, 38°12'N, 23°51'E, 22.10.2023, *Pantavos* & *Polymenakos* 9 (ATH).

New for nomos and eparchia, native roadside weed.

Reports 94–102**Arne Strid**

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The island group of Kastellorizo is the easternmost part of Greek territory, situated *ca.* 130 km E-SE of Rodos and close to the mainland of SW Anatolia. It is floristically rather well explored thanks to collections by Stamatiadou, Greuter, Constantinidis and others. On a visit to the main island (Megisti) in early April 2024 the present author collected *ca.* 130 species, eight of which turned out to be new for the island group. The total number of species recorded from the area now amounts to *ca.* 530.

Asteraceae**94. *Crepis micrantha* Czerep.**

Gr Nomos Dodekanisou, Eparchia Rodou: Megisti (island group of Kastellorizo), Mandraki harbour, 0–10 m, coastal and ruderal habitats, 04.04.2024, 36°08'N, 29°37'E, *Strid* 61927 (UPA).

Rather common on the East Aegean Islands; widespread elsewhere in the E Mediterranean area and SW Asia.

Caryophyllaceae**95. *Sagina maritima* G. Don**

Gr Nomos Dodekanisou, Eparchia Rodou: Megisti (island group of Kastellorizo), Mandraki harbour, 0–10 m, coastal and ruderal habitats, 04.04.2024, 36°08'N, 29°37'E, *Strid* 61911 (UPA).

A widespread Mediterranean-Atlantic species, usually in sandy coastal habitats.

Fabaceae**96. *Securigera securidaca* (L.) Degen & Dörfel.**

Gr Nomos Dodekanisou, Eparchia Rodou: Megisti (island group of Kastellorizo), between Mandraki and the electricity plant, 20–40 m, formerly cultivated terraces, 05.04.2024, 36°08'N, 29°37'E, *Strid* 61939 (UPA).

A widespread species of the Mediterranean area and SW Asia.

Geraniaceae**97. *Erodium moschatum* (L.) L'Hér.**

Gr Nomos Dodekanisou, Eparchia Rodou: Megisti (island group of Kastellorizo), NE outskirts of the town, along rocky path to the castle ruin, 0–50 m, 03.04.2024, 36°08'N, 29°37'E, *Strid* 61882 (UPA).

Widespread in the Mediterranean area and SW Asia, naturalized elsewhere.

Malvaceae**98. *Malva neglecta* Wallr.**

Gr Nomos Dodekanisou, Eparchia Rodou: Megisti (island group of Kastellorizo), NE outskirts of the town, along rocky path to the castle ruin, 0–50 m, 03.04.2024, 36°08'N, 29°37'E, *Strid* 61881 (UPA).

Europe and SW Asia, widely naturalized elsewhere.

Ranunculaceae**99. *Ranunculus cornutus* DC. (Fig. 18)**



Fig. 18. *Ranunculus cornutus* (photo A. Strid).

Gr Nomos Dodekanisou, Eparchia Rodou: Megisti (island group of Kastellorizo), near the monastery of Ag. Georgios above the town, 200 m, seasonally damp spots in formerly cultivated flats, 04.04.2024, 36°07'N, 29°37'E, *Strid* 61910 (B, LD, UPA, herb. Strid).

This species is rather widespread in SW Asia. Historical records from Greece were regarded as doubtful, and it was not included in the Greek Checklist (Dimopoulos & al. 2013), the Aegean Atlas (Strid 2016) or the Hellenic Atlas (Strid 2024). However, it has been confirmed to occur on the East Aegean islands of Rodos and Lesvos (Kalheber & Raus 2024: 31).

100. *Ranunculus sardous* Crantz

Gr Nomos Dodekanisou, Eparchia Rodou: Megisti (island group of Kastellorizo), between Mandraki and the electricity plant, 0–30 m, in a seasonally



Fig. 19. *Biarum ditschianum* (photo A. Strid).

damp spot near the coast, 05.04.2024, 36°08'N, 29°37'E, *Strid* 61933 (UPA).

Widespread in W & C Europe, the Mediterranean area and Anatolia, naturalized elsewhere.

Araceae

101. *Biarum ditschianum* Bogner & P. C. Boyce (Fig. 19)

Gr Nomos Dodekanisou, Eparchia Rodou: Megisti (island group of Kastellorizo), just above NW outskirts of the town, 30–100 m, garigue on rocky limestone slopes, 36°08'N, 29°37'E, 05.04.2024, *Strid* obs.

This rare and peculiar species was described from a single locality on the adjacent mainland of SW Anatolia (Bogner & Boyce 1989). It has been reported from Megisti (Constantinidis 2012:158–161) and although the present locality on Megisti is almost identical to another one reported by Constantinidis (2013: 72) it is included here because of the instructive color

photo. Only a few individuals were observed, probably the very first in a population. Contrary to other *Biarum* species, the inflorescence does not smell of manure, but has a rather pleasant sour-sweet scent when young, later with a hint of rotting fish.

Poaceae

102. *Bromus rigidus* Roth

Gr Nomos Dodekanisou, Eparchia Rodou: Megisti (island group of Kastellorizo), Mandraki harbour, 0–10 m, coastal and ruderal habitats, 04.04.2024, 36°08'N, 29°37'E, *Strid* 61917 (UPA).

Mediterranean area, W Europe and Atlantic Islands, naturalized elsewhere.

Reports 103–114

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Apocynaceae

103. *Vinca herbacea* Waldst. & Kit.

Gr Nomos & Eparchia Fthiotidos: Mt Othris, stony slopes from Othri to summit Gerakovouni, 39°09'N, 22°35'E, 03.05.2013, *Kofinas* obs. (photos). New for Mt Othri.

Aquifoliaceae

104. *Ilex aquifolium* L. (Fig. 20)



Fig. 20. *Ilex aquifolium* (photo G. Kofinas).

Gr Nomos & Eparchia Fthiotidos: east slopes of Mt Othris, dirt road to summit Gerakovouni and down to Anavra, area of windmills, 39°02'N, 22°35'E, 03.05.2013, *Kofinas* obs. (photos).

New for Mt Othri. In nomos Fthiotidos, reported from Mts Iti and Kallidromo.

Boraginaceae

105. *Alkanna versicolor* Orph. (Figs. 21-23)

Gr Nomos Arkadias, Eparchia Kinourias: Mt Parnon, Ag. Ioannis, 687 m, 37°21'N, 22°38'E, 19.05.2023, corolla pale bluish-pink or cream, *Kofinas* obs. (photos).

In Strid (2024) this taxon was considered identical to *A. sfikasiana* Kit Tan, Vold & Strid but examination of type material of both taxa shows that the inflorescences of *A. versicolor* are different, and moreover, very densely white-villous (Figs. 23 B & C). The corollas are pale in colour, varying from cream, pale yellow to a very pale blue or rose-pink, hence the name 'versicolor', meaning of various colours or changing in colour. *Alkanna sfikasiana* is of interest as a recent phytochemical study resulted in the isolation and elucidation of a new compound disodium rabdosiin which exhibited notable antioxidant and enzyme inhibitory effects suggesting a potential source for novel phyto-pharmaceuticals (Tufa & al. 2019).

Brassicaceae

106. *Noccaea bulbosa* (Spruner) Al-Shehbaz (Fig. 24)

Gr Nomos & Eparchia Fthiotidos: Mt Othris, stony slopes from Othri to summit Gerakovouni, 39°09'N, 22°35'E, 14.04.2012, *Kofinas* obs. (photos).

New for Mt Othri; reported from Mt Kallidromo in nomos Fthiotidos.

107. *Noccaea perfoliata* (L.) Al-Shehbaz

Gr Nomos & Eparchia Fthiotidos: Mt Othris, stony slopes from Othri to summit Gerakovouni, 39°09'N, 22°35'E, 03.05.2013, *Kofinas* obs. (photos).

New for Mt Othri, widespread elsewhere in Fthiotidos.

Caryophyllaceae

108. *Silene auriculata* Sm.

Gr Nomos Lakonias, Eparchia Lakedemonas: Mt Taigetos, north edge of Pyrgaki, rock crevices and

ledges of shady limestone cliff below Ag. Ioannis of Kastorio, together with *Clinopodium taygeteum* (syn. *Micromeria taygetea*), 1450 m, 37°08'N, 22°18'E, 10.08.2010, *Kofinas* obs. (photo).

New for Mt Taigetos. Southernmost occurrence in Greece, an extension of distribution in central Sterea Ellas and north central Peloponnese.

Fabaceae

109. *Cytisus procumbens* (Willd.) Spreng.

Gr Nomos Larisis, Eparchia Elassonos: NE of village Loutro, dry stony limestone slopes, 789 m, 39°57'N, 21°54'E, 30.09.2023, *Kit Tan* & *G. Vold* obs. (non-flowering).

New for nomos, eparchia and phytogeographical region East Central.

Polygalaceae

110. *Polygala crista-galli* Chodat (Fig. 25)

Gr Nomos Lakonias, Eparchia Lakedemonas: Mt Taigetos, north edge of Pyrgaki, below Ag. Ioannis of Kastorio, limestone rock crevices, 1450 m, 37°09'N, 22°17'E, 11.08.2010, *Kofinas* obs. (photo); SW slope, parallel ridge on way to Kuboriza, 14.05.2011, *Kofinas* obs. (photo).

Described from Androuvita in the foothills of Taigetos (*locus classicus*), based on a collection by Heldreich in June 1844. Rare on Taigetos.

Solanaceae

111. *Lycium europaeum* L. (Fig. 26)

Gr Nomos Lakonias, Eparchia Itilou: 16th century Monastery of Dekoulou near Itilou, 120 m, 36°42'N, 22°23'E, 16.03.2024, *Kofinas*, *Polymenakos* & *Giannopoulos* obs. (det. K. Polymenakos, conf. Kit Tan).

New for eparchia; second report from Lakonias, the first being a record from eparchia Epidavrou Limiras, near the mouth of the Eurotas river.

Valerianaceae

112. *Valeriana italica* Lam.

Gr Nomos & Eparchia Fthiotidos: Mt Othris, stony slopes from Othri to summit Gerakovouni, 39°01'N, 22°45'E, 03.05.2013, *Kofinas* obs. (photos).

New for Mt Othri.



Fig. 21. *Alkanna sfikasiana* holotype (Kit Tan & G. Vold 27085).



Fig. 22. *Alkanna versicolor* isotype (Orphanides 858, WU-0079214).



Fig. 23. Inflorescences of A, *Alkanna sfikasiana* B, *A. versicolor* C, *A. versicolor* (from isotype WU-0079214, inflorescences densely white-villous).



Fig. 24. *Noccaea bulbosa* (photo G. Kofinas).



Fig. 25. *Polygala crista-galli* (photo G. Kofinas).



Fig. 26. *Lycium europaeum* (photo G. Kofinas).

Hyacinthaceae

113. *Scilla nana* (Schult. & Schult. f.) Speta (Figs. 27 & 28)

Gr Nomos Larisis, Eparchia Agias/Larisis: Mt Ossa, above refuge of Kissavou, 1750 m, 39°47'N, 22°38'E, 24.04.2014, *Papagiannis* obs. (photos); alpine meadow by refuge of Kissavou, 1600 m, 09.04.2016, *Kofinas* obs. (photos).

New for phytogeographical region East Central and mainland Greece. A notable disjunction from its known occurrence in the mountains of Kriti. The locality was above a spring which was channelled to a drinking trough for sheep and goats out on pasture. First reported online in April 2014 (Fig. 28) by George Papagiannis as a “sensational



Fig. 27. *Scilla nana* (photo G. Kofinas).



Fig. 28. *Scilla nana* from Mt Ossa (photo G. Papagiannis).

and exciting” discovery but this went unheeded by the scientific botanical community. The discoverer was an amateur speleologist, a serious man not given to scientific hoaxes. However, independent corroboration is desirable. No plants were discovered by Kofinas in April 2018 although that was a year with heavy snowfall on Mt Ossa. Attempts to find plants in 2023 also failed, it was a year with little snow. A voucher specimen has been deposited with Prof. D. Phitos at the University of Patras (herb. UPA).

Iridaceae

114. *Crocus flavus* Weston

Gr Nomos & Eparchia Fthiotidos: Mt Othris, stony slopes from Othri to summit Gerakovouni, 39°01'N, 22°45'E, 03.05.2013, Kofinas obs. (photos).

New for Mt Othri, rare in Sterea Ellas (reported from Mt Parnitha).

Reports 115–146

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Equisetaceae

115. *Equisetum arvense* L.

Gr Nomos & Eparchia Serron: Mt Menikio, wet places near Monastery, 465 m, 41°08'N, 23°36'E, 09.07.2014, *Sister Pachomia & al.* s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio; reported from Mt Vrondous in eparchia Serron.

116. *Equisetum telmateia* Ehrh.

Gr Nomos & Eparchia Serron: Mt Menikio, wet places near Monastery, 465 m, 41°08'N, 23°36'E, 09.07.2014, *Sister Pachomia & al.* s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio.

Apiaceae

117. *Angelica sylvestris* L.

Gr Nomos & Eparchia Serron: Mt Menikio, wet places by water channel and in vegetable garden of monastery of Timios Prodromos, 352 m, 41°08'N, 23°37'E, 04.06.2018, *Sister Pachomia & al.* s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio. In nomos Serron reported from Mt Beles (Kerkini).

118. *Foeniculum vulgare* Mill.

Gr Nomos & Eparchia Serron: Mt Menikio, cultivated fields near monastery of Timios Prodromos, 417 m, 41°07'N, 23°36'E, 14.06.2018, *Sister Pachomia & al.* s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio. In nomos Serron reported from Mt Beles (Kerkini).

119. *Peucedanum arenarium* Waldst. & Kit.

Gr Nomos & Eparchia Serron: Mt Menikio, stony and rocky ground, 1754 m, 41°11'N, 23°45'E, 08.07.2021, *Sister Pachomia & al.* s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio and eparchia Serron. In nomos Serron reported from Mt Beles (Kerkini) and Mt Agkistro.

120. *Scandix pecten-veneris* L.

Gr Nomos & Eparchia Serron: Mt Menikio, vegetable garden, monastery of Timios Prodromos, 344 m, 41°08'N, 23°37'E, 16.04.2019, *Sister Pachomia & al.* s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio.

Apocynaceae

121. *Cynanchum acutum* L.

Gr Nomos & Eparchia Serron: Mt Menikio, stony roadside slopes, 670 m, 41°11'N, 23°47'E, 29.07.2022, *Sister Pachomia & al.* s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio.

Asteraceae

122. *Carduus personata* subsp. *albidus* (Adamović) Kazmi

Gr Nomos & Eparchia Serron: Mt Menikio, damp shaded places in open forest clearings, 979 m, 41°12'N, 23°46'E, 29.07.2022, *Sister Pachomia & al.* s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio, nomos and eparchia.

123. *Cirsium arvense* (L.) Scop.

Gr Nomos & Eparchia Serron: Mt Menikio, roadsides and forest openings, 989 m, 41°12'N, 23°46'E, 29.07.2022, *Sister Pachomia & al.* s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio.

124. *Hieracium heldreichii* Boiss.

Gr Nomos & Eparchia Serron: Mt Menikio, rocky slopes, 1758 m, 41°11'N, 23°45'E, 08.07.2021, *Sister Pachomia & al.* s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio and eparchia Serron.

Brassicaceae

125. *Sinapis arvensis* L.

Gr Nomos & Eparchia Serron: Mt Menikio, roadsides, 831 m, 41°08'N, 23°44'E, 07.06.2021, *Sister Pachomia & al.* s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio.

Crassulaceae**126. *Hylotelephium telephium* (L.) Ohba**

Gr Nomos & Eparchia Serron: Mt Menikio, open woodland and scrub, 968 m, 41°11'N, 23°48'E, 21.07.2022, *Sister Pachomia* & al. s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio. In nomos Serron, reported from Mts Vrontous and Beles.

127. *Sedum alpestre* Vill.

Gr Nomos & Eparchia Serron: Mt Menikio, rocky places, 1392 m, 41°09'N, 23°44'E, 22.06.2021, *Sister Pachomia* & al. s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio. In nomos Serron, reported from Mt Vrontous.

Euphorbiaceae**128. *Euphorbia stricta* L.**

Gr Nomos & Eparchia Serron: Mt Menikio, forest openings, roadsides, 939 m, 41°09'N, 23°46'E, 07.06.2021, *Sister Pachomia* & al. s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio. In nomos Serron, reported from Mt Vrontous.

Fabaceae**129. *Trifolium cherleri* Murray**

Gr Nomos & Eparchia Serron: Mt Menikio, forest clearing, 458 m, 41°11'N, 23°48'E, 21.07.2022, *Sister Pachomia* & al. s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio.

Lamiaceae**130. *Calamintha menthifolia* subsp. *hirta* (Jord.) Raus (Fig. 29)**

Gr Nomos & Eparchia Serron: Mt Menikio, roadsides and forest clearings, 899 m, 41°12'N, 23°46'E, 29.07.2022, *Sister Pachomia* & al. s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio, nomos and eparchia. Reported from Mt Athos. *Calamintha m.* subsp. *ascendens* (Jord.) Raus was reported from Mt Menikio by Karagiannakidou & Kokkini (1987).

Lythraceae**131. *Lythrum salicaria* L.**

Gr Nomos & Eparchia Serron: Mt Menikio, edge of Lake Camberra (Kampera), NW of Mikropolis, 902 m, 41°09'N, 23°46'E, 07.06.2021, *Sister Pachomia* & al. s.n. (herb. Monastery of Timios Prodromos, Serres); wet places near Monastery, 465 m, 41°08'N, 23°36'E, 09.07.2014, *Sister Pachomia* & al. s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio and eparchia Serron.

Malvaceae**132. *Malva unguiculata* (Desf.) Alef.**

Gr Nomos & Eparchia Serron: Mt Menikio, forest clearing and roadsides, 989 m, 41°12'N, 23°46'E, 29.07.2022, *Sister Pachomia* & al. s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio, nomos and eparchia.

Polygonaceae**133. *Rumex conglomeratus* L.**

Gr Nomos & Eparchia Serron: Mt Menikio, Lake Camberra (Kampera), 1009 m, 41°09'N, 23°46'E, 21.07.2022, *Sister Pachomia* & al. s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio.

Primulaceae**134. *Lysimachia nummularia* L. (Fig. 30)**

Gr Nomos & Eparchia Serron: Mt Menikio, edge of Lake Camberra (Kampera), 902 m, 41°09'N, 23°46'E, 07.06.2021, *Sister Pachomia* & al. s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio and eparchia.

135. *Lysimachia vulgaris* L.

Gr Nomos & Eparchia Serron: Mt Menikio, damp and shady places at roadside, 1124 m, 41°10'N, 23°46'E, 21.07.2022, *Sister Pachomia* & al. s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio. In nomos Serron, also on Mt Vrontous.

Rosaceae**136. *Sorbus aria* (L.) Crantz (Fig. 31)**



Fig. 29. *Calamintha menthifolia* subsp. *hirta* (photo Sister Pachomia).



Fig. 30. *Lysimachia nummularia* (photo Sister Pachomia).



Fig. 31. *Sorbus aria* (photo Sister Pachomia).

Gr Nomos & Eparchia Serron: Mt Menikio, stony and rocky slopes in forest openings, 1448 m, 41°12'N, 23°44'E, 29.07.2022, *Sister Pachomia* & *al.* s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio. In nomos Serron, reported from Mt Vrontous.

Santalaceae

137. *Thesium linophyllum* subsp. *montanum* (Schrad.) Čelak.

Gr Nomos & Eparchia Serron: Mt Menikio, stony slopes, 893 m, 41°11'N, 23°47'E, 29.07.2022, *Sister Pachomia* & *al.* s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio. In nomos Serron, also on Mt Beles.

Scrophulariaceae

138. *Veronica beccabunga* L.

Gr Nomos & Eparchia Serron: Mt Menikio, muddy places at edge of Lake Camberra (Kampera), NW of Mikropolis, 902 m, 41°09'N, 23°46'E, 07.06.2021, *Sister Pachomia* & *al.* s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio. In nomos Serron, reported from wet places on Mt Vrontous and edge of Lake Kerkini.

139. *Veronica anagallis-aquatica* L.

Gr Nomos & Eparchia Serron: Mt Menikio, edge of Lake Camberra, NW of Mikropolis, 902 m, 41°09'N, 23°46'E, 07.06.2021, *Sister Pachomia* & *al.* s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio.

Alliaceae

140. *Allium ampeloprasum* L.

Gr Nomos & Eparchia Serron: Mt Menikio, stony roadside slopes, 902 m, 41°12'N, 23°46'E, 29.07.2022, *Sister Pachomia* & *al.* s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio and eparchia. Reported from eparchia Fillidos.

141. *Allium guttatum* (Parl.) Soldano

Gr Nomos Serron, Eparchia Sintikis: Mt Beles, above

Petritsi, dry meadow, 800–850 m, 41°19'N, 23°16'E,
30.06.2020, *Sister Pachomia* obs. (photos).

New for Mt Beles.

Cyperaceae

142. *Scirpoides holoschoenus* (L.) Soják

Gr Nomos & Eparchia Serron: Mt Menikio, edge of Lake Camberra (Kampera), 902 m, 41°09'N, 23°46'E, 21.07.2021, *Sister Pachomia* & al. s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikion, in nomos Serron noted from Lake Kerkini, river Strymonas and wet places on Mt Vrondous.

Iridaceae

143. *Gladiolus palustris* Gaudin (Fig. 32)

Gr Nomos & Eparchia Serron: Mt Menikio, stony ground, 1261 m, 41°10'N, 23°45'E, 22.06.2021, *Sister Pachomia* & al. s.n. (herb. Monastery of Timios Prodromos, Serres).

— Eparchia Sintikis: Mt Agkistro, damp meadows, 838 m, 41°20'N, 23°28'E, 17.06.2022, *Sister Pachomia* & al. s.n. (herb. Monastery of Timios Prodromos, Serres).

— Eparchia Fillidos: Mt Kerdylion, along path in open woodland, 615 m, 40°48'N, 23°39'E, 12.05.2021, *Sister Pachomia* & al. s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mts Menikio, Kerdylio and Agkistro, eparchies Sintikis and Serron. In nomos Serron, only reported once from eparchia Fillidos.

Juncaceae

144. *Juncus inflexus* L.

Gr Nomos & Eparchia Serron: Mt Menikio, wet places, 1009 m, 41°09'N, 23°46'E, 21.07.2022, *Sister Pachomia* & al. s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio.

Orchidaceae

145. *Dactylorhiza kalopissii* E. Nelson

Gr Nomos & Eparchia Serron: Mt Menikio, damp places in woodland, 968 m, 41°11'N, 23°48'E, 21.07.2022, *Sister Pachomia* & al. s.n. (herb. Monastery of Timios Prodromos, Serres).



Fig. 32. *Gladiolus palustris* (photo Sister Pachomia).

New for Mt Menikio, nomos, eparchia and floristic region North East.

Poaceae

146. *Bromus intermedius* Guss.

Gr Nomos & Eparchia Serron: Mt Menikio, roadsides, 894 m, 41°11'N, 23°47'E, 29.07.2022, *Sister Pachomia* & al. s.n. (herb. Monastery of Timios Prodromos, Serres).

New for Mt Menikio.

Reports 147–148

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Asteraceae

147. *Carlina vulgaris* subsp. *spinosa* (Velen.) Vandas (Figs. 33 & 34)

Gr Nomos & Eparchia Korinthias: N of the village of Karya, in *Pinus nigra* forest, 1540 m, 38°01'N, 22°25'E, 19.08.2023, *Zarkos* & *Kounis* obs. (photos).
New for the Peloponnese. Reported from mainland Greece in floristic regions North and East Central,



Fig. 33. *Carlina vulgaris* subsp. *spinosa* (photo G. Zarkos).



Fig. 34. Distribution of *Carlina vulgaris* subsp. *spinosa* in Greece.

North and South Pindos. *Carlina vulgaris* subsp. *vulgaris* occurs in North East (Mts Chortiatis, Pangeon, Rodopi, Orvilos) and North Central (Mts Paiko, Vourinos). The species is very variable.

Hyacinthaceae

148. *Muscari anatolicum* J. Cowley & Özhatay (Fig. 35)

Gr Nomos Achaïas, Eparchia Egialias: near the village of Pteri, clay on road embankment in opening of *Abies* forest, 950 m, 38°09'N, 22°04'E, 12.04.1997, *Strid* 41151 (herb. *Strid*).

This plant was cultivated in the Göteborg Botanical Garden as S97-14-02, and photographed on 21 March 2021 (Fig. 35, plant on the right) together with *M. anatolicum* which was collected from S Anatolia (*J. Persson* 87-77), cultivated in the same Botanical

Garden and photographed on the same day 21 March 2021 (Fig. 35, plant on the left). As one can see, the two plants though very similar, are not identical. The perianth tube of fertile flowers of *M. anatolicum* is scarcely constricted distally and with large white recurved lobes. The sterile flowers are pale or bright blue with greenish-yellow to violet colouration at the mouth. On the other hand, the plant on the right is typical of one of the numerous forms of *M. neglectum* Guss. ex Ten. found in Greece.

A careful search of the area near Pteri on Mt Klokos was made on 12 April 2024 by George Zarkos accompanied by Vassilis Christodoulou, both excellent plant observers. However, no *M. anatolicum* was found, and it had never been recollected in the area for the last 27 years since first discovery. Only *M. neglectum* and



Fig. 35. *Muscari anatolicum* (left) and *M. neglectum* (right) (photo A. Strid).

M. comosum occurred in the area. It was regrettably decided that this only collection from Greece represents a form of the widespread and variable *M. neglectum*. *Muscari anatolicum* is restricted to south central Anatolia where it is found on calcareous, open rocky slopes, under *Cedrus libani* and *Pinus*, at altitudes of 450–2300 m. According to Eker (2022), *M. anatolicum* is a Turkish endemic. Thus *M. anatolicum* should be deleted from the native Greek flora. The authors of the species state that it is almost impossible to distinguish the two taxa based on dried herbarium specimens; however, in living material or photographs of live plants, the differences are obvious.

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