

## New floristic records in the Balkans: 7\*

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**Abstract.** New chorological data are presented for 106 species and subspecies from Bulgaria (records no. 72-79, 84-94, 105-106), Greece (2-60, 95-104) and Turkey-in-Europe (1, 61-71, 80-83). The taxa belong to the following families: *Amaranthaceae* (18, 19), *Amaryllidaceae* (49, 50, 77), *Apiaceae* (3, 84, 85, 99, 100), *Asclepiadaceae* (106), *Asteraceae* (4, 5, 20-25, 86, 87, 95, 96, 101), *Berberidaceae* (73), *Boraginaceae* (26), *Brassicaceae* (27-29, 97), *Caryophyllaceae* (30, 31), *Chenopodiaceae* (32, 33), *Convolvulaceae* (6), *Crassulaceae* (88), *Cucurbitaceae* (34), *Cupressaceae* (105), *Cyperaceae* (13-15, 51), *Dipsacaceae* (7), *Elaeagnaceae* (74), *Euphorbiaceae* (8), *Fabaceae* (9, 35, 36, 67-71, 80-83, 89), *Gentianaceae* (37), *Geraniaceae* (38), *Iridaceae* (52, 53), *Juncaceae* (54), *Lamiaceae* (10, 39, 102, 103), *Liliaceae* s.l. (55, 56, 92), *Linaceae* (40), *Malvaceae* (90), *Onagraceae* (11), *Orchidaceae* (66, 79), *Plumbaginaceae* (104), *Poaceae* (1, 57-60, 78, 93-94), *Polypodiaceae* (2, 16, 17), *Portulacaceae* (41), *Primulaceae* (42), *Ranunculaceae* (61-65), *Rosaceae* (75, 76, 91), *Rubiaceae* (12, 43, 98), *Salviniaceae* (72), *Sapindaceae* (44), *Scrophulariaceae* (45, 46), *Solanaceae* (47) and *Urticaceae* (48).

First report for a country is: Turkey – *Setaria pallide-fusca* (1); Turkey-in-Europe – *Orchis italica* (66)..

The publication includes contributions by N. Başak & N. Güler (1), B. Biel & Kit Tan (2-60), F. Dane & M. Aybeke (61-65), N. Güler (66), Ç. Meriç, G. Yılmaz & F. Dane (67-71), A.S. Petrova (72-78), A.S. Petrova, H. Hristov & V. Trifonov (79), G. Savaş, N. Başak, G. Yılmaz & F. Dane (80-83), A.P. Seregin (84-94), Kit Tan & M. Issigoni (95-98), Kit Tan, G. Sfikas & G. Vold (99-104), A. Tashev (105-106).

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This is the seventh report in a series dealing with the new chorological data of vascular plants in the Balkans. For details on the presentation of information see *Phytologia Balcanica*, vol. 12(1), pp. 107-108 and vol. 12(2), p. 279.

\* Reports for Bulgaria have been reviewed by V. Vladimirov, for Greece by Kit Tan and for Turkey-in-Europe by F. Dane.

## Report 1

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### Poaceae

1. *Setaria pallide-fusca* (Schumach.) Stapf & C.E. Hubb.

Tu(E) A1(E) Edirne: Trakya University Gullapoglu Campus, in grassy places, R. 50, 41°38'74"N, 26°37'20"E, 01.09.2001, coll. S. Paksüz (EDTU 9617), det. N. Başak.

A new species for Turkey and the Balkans. It is a wide-spread species, with a distribution area in C America, Africa, Middle East, India, SE Asia, China, Japan, Korea, the Philippines, Indonesia, Australia, and the Pacific Islands (Häfliger & Scholz 1980). Within the genus Setaria, five species have been recognized in Turkey – *S. viridis*, *S. italicica*, *S. vericillata*, *S. adherens* and *S. glauca* (Scholz 1985). *Setaria pallide-fusca* is distinguished from the other species by annual tufted plants; blade linear, (5)12–20 cm long, 4–8 mm wide; ligule 1.5 mm, hairy ring; sheath compressed; panicle densely cylindrical, 4–5 × 0.5–1 cm; branches axis very short, subtended by 6–10 bristles per cluster; axis pubescent; bristles antrorsely scabrous and rufous, or red; spikelet solitary or in clusters of 2–3, 2–2.8 × 15 mm, subsessile; glumes half as long as the spikelet, hyaline, 3–5-nerved; lemmas equalling the spikelet, 5-nerved. Introduced and naturalized by contamination of the crop plant seeds coming to the area.

It is very likely that this species has escaped from cultivated fields and got naturalized.

**Acknowledgements.** We would like to thank Mr Serbülent Paksüz for his help with the field work.

## Reports 2–15

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This is the fifth report of new plant-records for the

island of Samothraki (N Aegean islands) based on fieldwork carried out in the years 2000–2002 and 2007. The 14 records listed are all new to the island and when specifically stated, to the floristic region N Aegean (NAe) as circumscribed in *Flora Hellenica* (Strid & Tan 1997).

### Polypodiaceae

2. *Asplenium adiantum-nigrum* L.

Gr Samothraki: N-NE of Pachia Ammos, granitic rock crevices at source of the Kousianda, 1140 m, 40°25'21"N, 25°35'06"E, 29.06.2007, Biel 07.314.

Confirming occurrence on island and existing literature records from Mt Fengari by Ade & Rechinger (1938: 114) and Stojanov & Kitanov (1944: 415).

### Apiaceae

3. *Bupleurum odontites* L. (Fig. 1)

Gr Samothraki: E of Kamariotissa, shrubby margins of dirt road between fields, on marl, 25 m, 40°28'49"N, 25°28'44"E, 26.05.2002, Biel 02.012; E of Kamariotissa, coastal limestone slope with phrygana and olive trees, 30 m, 40°28'53"N, 25°29'00"E, 17.06.2007, Biel 07.028.

Two earlier unpublished collections from the island are known.

### Asteraceae

4. *Anthemis cotula* L.

Gr Samothraki: SW of Kamariotissa, seasonally wet wheat field near dirt road, 4 m, 40°28'10"N, 25°27'50"E, 16.06.2007, Biel 07.003.

One earlier unpublished collection, otherwise new for Samothraki.



Fig. 1.  
*Bupleurum odontites*  
(photo B. Biel).

**5. *Centaurea affinis* Friv. subsp. *affinis* (Fig. 2)**

**Gr** Samothraki: E-SE of Alonia, in phrygana at rocky summit, 690 m, 40°27'29" N, 25°32'58" E, 21.06.2007, Biel 07.144a & 07.144b; E-NE of Pachia Ammos, rock outcrops in open phrygana at eastern ridge of Vounos, 900 m, 40°25'17.26" N, 25°37'35.6" E, 28.06.2007, Biel 07.298.

Another locality was noted to the west. New for the N Aegean islands.

*Convolvulaceae*

**6. *Cressa cretica* L.**

**Gr** Samothraki: SW of Kamariotissa, edge of seasonal pool behind beach wall, on sandy loam, 5 m, 40°27'43" N, 25°27'33" E, 18.06.2007, Biel 07.058; SW of Kamariotissa, fields inundated in spring, behind beach wall, on sandy loam, 2 m, 40°27'21" N, 25°27'56" E, 27.06.2007, Biel 07.286.

One earlier unpublished collection, otherwise new for the island.

*Dipsacaceae*

**7. *Scabiosa sicula* L.**

**Gr** Samothraki: E of Kamariotissa, slope with phrygana and oak, on flysch, 30 m, 40°28'53" N, 25°29'00" E, 17.06.2007, Biel 07.032.

One earlier collection from Chora, at 250–350 m, 04.06.1970, Stamatiadou 9339 (ATH).

*Euphorbiaceae*

**8. *Andrachne telephiooides* L.**

**Gr** Samothraki: SW of Kamariotissa, phrygana on coastal limestone slope, 10 m, 40°28'09" N, 25°27'33" E, 17.06.2007, Biel 07.012.

Confirming the early collection of Dörfler on 27.06.1890 from the north coast, cited by Ade & Rechinger (1938: 119). In the N Aegean, only known from Samothraki.

*Fabaceae*

**9. *Trifolium leucanthum* M. Bieb.**

**Gr** Samothraki: E-NE of Kamariotissa, shady stream banks in valley between fields, 20 m, 40°28'55" N, 25°28'58" E, 17.06.2007, Biel 07.043.

Recorded from Limnos.

*Lamiaceae*

**10. *Stachys cretica* subsp. *cassia* (Boiss.) Rech. f.**

**Gr** Samothraki: S of Profitis Ilias, slope with phrygana and olive trees, 20 m, 40°24'15" N, 25°33'13" E, 23.06.2007, Biel 07.209.



**Fig. 2.**  
*Centaurea affinis*  
subsp. *affinis*  
(photo B. Biel).

Occurring in small populations distributed over a wide area. Recorded from Thasos.

*Onagraceae*

**11. *Epilobium hirsutum* L.**

**Gr** Samothraki: N-NE of Kamariotissa, wet ditch below spring, roadside, 10 m, 40°28'59" N, 25°28'43" E, 17.06.2007, Biel 07.048.

Three other localities were noted near Kamariotissa. Recorded from Thasos.

*Rubiaceae*

**12. *Galium verum* L.**

**Gr** Samothraki: SW of Kamariotissa, coastal limestone slopes with shrubs, 10 m, 40°27'51" N, 25°27'24" E, 17.06.2007, Biel 07.025; S of Kamariotissa, margins of dirt road between cereal fields, 20 m, 40°27'44" N, 25°28'17" E, 27.06.2007, Biel 07.290.

Two other sites were noted at Kamariotissa and Alonia in 2000. Recorded from Thasos.

*Cyperaceae*

**13. *Cyperus michelianus* subsp. *pygmaeus* (Rottb.) Asch. & Graebn.**

**Gr** Samothraki: NE of Therma, large coastal wetland and alluvial *Alnus*-forest, 3 m, 40°29'34" N, 25°38'48" E, 19.06.2007, Biel 07.101b.

Forming a well developed and rare association together with *Crypsis schoenoides*, *Eleocharis acicularis*, *Fimbristylis bisumbellata* and *Fimbristylis squarrosa* (see Tan & al. 2007). The species is new for the N Aegean islands.

**14. *Eleocharis acicularis* (L.) Roem. & Schult.**

**Gr** Samothraki: S of Anomeria-Isomata, 130 m, slope with *Quercus* forest, 40°27'45" N, 25°40'12" E, 22.06.2007, Biel 07.183a; E-SE of Therma, large coastal wetland and alluvial *Alnus*-forest, 2 m, 40°29'34" N, 25°38'48" E, 22.06.2007, Biel 07.188b.

There are few reports of this species from Greece, one being the literature record cited by Pavlides (1985: 267) from the Prespa National Park at Mikri Prespa.

**15. *Isolepis cernua* (Vahl) Roem. & Schult.**

**Gr** Samothraki: NE of Therma, wet meadows with *Platanus* trees along coastal road, 5 m; 40°29'59" N, 25°37'10" E, 13.06.2000, Biel 00.080; N-NW of Therma, seasonal pool by coastal road, 5 m, 40°30'04" N, 25°36'13" E, 09.05.2001, Biel 01.084; S of Anomeria-Isomata, slope with *Quercus* forest, 130 m, 40°27'45" N, 25°40'12" E, 22.06.2007, Biel 07.183.

Four other sites were noted near Therma.

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

**Reports 16–60****Burkhard Biel<sup>1</sup> & Kit Tan<sup>2</sup>**

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This is the first report of new plant-records for the south Cycladean islands of Folegandros and Sikinos based on fieldwork carried out in the years 2004 and 2005. The 45 records listed are all new to the islands as stated, and when specifically stated, to the floristic region Kiklades (Nomos Kikladon, Eparchia Milou) as circumscribed in *Flora Hellenica* (Strid & Tan 1997). The occurrence on the other islands in Eparchia Milou is also provided; many of these island reports are documented by the observations and collections of Prof. Hans Runemark and co-workers at Lund (LD).

**Polypodiaceae****16. *Asplenium ceterach* L.**

**Gr** Folegandros: NE of Hora, rocky phrygana near a paved concrete road to the monastery of Ag. Ioannis, on marble and limestone, 240 m, 36°37'50" N, 24°55'23" E, 06.03.2005, Biel 05.012.

Four other localities were noted at Ag. Nikolaos (S-SW of Hora), SE of Petousis, W-NW of Karavostasis and near Ag. Pantos. Reported from Sikinos; noted S of Hora on the island.

**17. *Cheilanthes maderensis* Lowe**

**Gr** Folegandros: W-NW of Karavostasis, rocky river gorge with phrygana, on limestone, 100 m, 36°37'10" N, 24°56'10" E, 07.03.2005, Biel 05.027 & 05.028.

Reported from Andimilos.

**Amaranthaceae****18. *Amaranthus deflexus* L.**

**Gr** Folegandros: E of Hora, road margins in village, on marble and limestone, 210 m, 36°37'44" N, 24°55'26" E, 15.05.2005, Biel 05.089.

— Sikinos: Hora (Kastro), path margins and waste land in village, on limestone and sandstone, 280 m, 36°41'47" N, 25°07'18" E, 30.10.2004, Biel 04.001.

Reported from Sifnos.

**19. *Amaranthus hybridus* L.**

**Gr** Sikinos: Hora-Apano Choria, road margins and stone steps in village, 280 m, 36°41'38" N, 25°07'01" E, 31.10.2004, Biel 04.011.

New for eparchia.

**Asteraceae****20. *Conyza canadensis* (L.) Cronq.**

**Gr** Sikinos: Hora (Kastro), road margins and waste land in village, on limestone and sandstone, 280 m, 36°41'47" N, 25°07'18" E, 30.10.2004, Biel 04.002.

New for eparchia.

**21. *Hyoseris radiata* L.**

**Gr** Folegandros: NE of Angali, phrygana slope at ridge of hill, on schist, 100 m, 36°38'07" N, 24°53'54" E, 08.03.2005, Biel 05.037; S of Angali, abandoned terraces, on schist, 20 m, 36°37'41" N, 24°53'45" E, 08.03.2005, Biel 05.042.

New for eparchia.

**22. *Inula graveolens* (L.) Desf.**

**Gr** Folegandros: N-NE of Angali, rocky phrygana slope in valley, on schist, 30 m, 36°38'09" N, 24°53'47" E, 29.10.2004, Biel 04.024.

Also observed at Livadi bay.

— Sikinos: noted at Hora-Stamatini, Hora-Arapi, Hora-Episkopi and NW of Alopronia.

New for eparchia.

**23. *Lactuca serriola* L.**

**Gr** Sikinos: Hora-Apano Choria, road margins and stone steps in village, 280 m, 36°41'38" N, 25°07'01" E, 31.10.2004, *Biel* 04.013.

Reported from Kimolos.

**24. *Matricaria recutita* L.**

**Gr** Folegandros: E of Hora, road margins in village, 210 m, 36°37'44" N, 24°55'26" E, 08.03.2005, *Biel* 05.063.

Also observed in courtyard of "Panaghia" monastery, NE of Hora.

— Sikinos: noted at Hora-Stamatini.

Reported from Kimolos, Milos, Poliegos and Sifnos.

**25. *Senecio gallicus* Chaix**

**Gr** Folegandros: N-NE of Angali, rocky phrygana slope and olive terraces, on schist, 30 m, 36°38'09" N, 24°53'47" E, 08.03.2005, *Biel* 05.040; W of Hora, damp places in abandoned terraces, on sandstone and limestone, 180 m, 36°37'45" N, 24°55'05" E, 14.05.2005, *Biel* 05.072; N-NW of Ano Meria, beach near Akr. Ag. Georgios, on schist, 3 m, 36°39'59" N, 24°51'38" E, 16.05.2005, *Biel* 05.110.

Several other localities noted including Karavostasis and at the monastery of Ag. Ioannis (NE of Hora).

— Sikinos: S of Hora, abandoned walled terraces, on schist, 220 m, 36°41'33" N, 25°07'10" E, 26.02.2005, *Biel* 05.001; SW of Alopronia, phrygana slope and road margins, on marble, 10 m, 36°40'32" N, 25°08'46" E, 28.02.2005, *Biel* 05.038.

Several other localities noted NW of Hora, W-SW of Hora (Villa), Hora-Kastro and Hora-Ag Vlasios.

Reported from Sifnos.

***Boraginaceae*****26. *Heliotropium suaveolens* M. Bieb.**

**Gr** Folegandros: S of Karavostasis, road margins in port area, on limestone and schist, 5 m, 36°36'56" N, 24°56'52" E, 28.10.2004, *Biel* 04.015.

Reported from Milos.

***Brassicaceae*****27. *Cardamine hirsuta* L.**

**Gr** Sikinos: S-SW of Hora, burnt phrygana on terraces at Monopati directly north of the pass, on schist, 500 m, 36°40'26" N, 25°06'25" E, 27.02.2005, *Biel* 05.034.

Reported from Sifnos.

**28. *Erophila praecox* (Steven) DC.**

**Gr** Folegandros: NE of Hora, sandy and stony

courtyard in the monastery of "Panaghia", 280 m, 36°37'54" N, 24°55'30" E, 06.03.2005, *Biel* 05.011.

Reported from Milos and Sikinos.

**29. *Rapistrum rugosum* (L.) All.**

**Gr** Sikinos: E of Hora, road margins and olive terraces, on schist, 250 m, 36°41'45" N, 25°07'33" E, 02.11.2004, *Biel* 04.032; E-SE of Hora, *Sarcopoterium*-phrygana, on schist, 240 m, 36°41'32" N, 25°07'40" E, 21.05.2005, *Biel* 05.134.

Three other localities noted S-SE of Hora, at Hora-Ag. Pantes and Hora-Kastro. Reported from Folegandros, Kimolos, Milos and Sifnos; noted at Ano Meria-Ag. Sostis and Hora on Folegandros.

***Caryophyllaceae*****30. *Bolanthus graecus* (Schreb.) Barkoudah (Fig. 3)**

**Gr** Sikinos: S of Hora, phrygana slope at hill saddle, on limestone and marble, 120 m, 25°06'47" E, 36°39'13" N, 23.05.2005, *Biel* 05.173.

New for eparchia.

**31. *Stellaria cupaniana* (Jord. & Fourr.) Bég.**

**Gr** Folegandros: S of Karavostasis, road margins in port area, on limestone and schist, 5 m, 36°36'56" N, 24°56'52" E, 09.03.2005, *Biel* 05.049.



Fig. 3. *Bolanthus graecus* (photo B. Biel).

Another locality noted west of the port. Reported from Sikinos and noted at Hora-Vorino on the island.

#### *Chenopodiaceae*

**32. *Beta vulgaris* subsp. *maritima* (L.) Arcang.**

**Gr** Folegandros: noted at Hora-Kanoules and Ano Meria-Petrounelia.

— Sikinos: Alopronia, beach and river mouth, 2 m, 36°40'35" N, 25°08'43" E, 30.10.2004, *Biel* 04.008.

Reported from Kimolos, Milos, Poliegos and Sifnos.

**33. *Chenopodium murale* L.**

**Gr** Folegandros: Karavostasis, road margins and waste land in village, on gravelly schist, 10 m, 36°37'01" N, 24°56'59" E, 28.10.2004, *Biel* 04.002; S-SE of Ano Meria, Ag. Nikolaos, sandy beach with *Arundo*, 3 m, 36°37'54" N, 24°53'09" E, 18.05.2005, *Biel* 05.149a.

Another locality noted W-NW of Hora. Reported from Kimolos, Milos, Poliegos, Sifnos and Sikinos; noted at Hora-Apano Choria on Sikinos.

#### *Cucurbitaceae*

**34. *Ecballium elaterium* (L.) Rich.**

**Gr** Sikinos: Hora, road margins and waste land, on limestone and sandstone, 280 m, 36°41'47" N, 25°07'18" E, 05.03.2005, *Biel* 05.121.

Another locality noted at Hora-Kastro. Reported from Kimolos and Milos.

#### *Fabaceae*

**35. *Lotus angustissimus* L.**

**Gr** Folegandros: S-SW of Karavostasis, rocky phrygana in depression, on marble and limestone, 60 m, 36°36'37" N, 24°56'38" E, 09.03.2005, *Biel* 05.052.

— Sikinos: SW of Alopronia, phrygana slope, on marble, 10 m, 36°40'32" N, 25°08'46" E, 28.02.2005, *Biel* 05.033.

Another locality noted SE of Hora. Reported from Milos.

**36. *Trigonella corniculata* L.**

**Gr** Sikinos: NW of Hora, steep terraced slope with fruit trees and *Euphorbia* scrub, on schist, 130 m, 36°41'48" N, 25°06'54" E, 01.11.2004, *Biel* 04.021.

Reported from Folegandros and Sifnos; in 2005, noted at Karavostasis on Folegandros.

#### *Gentianaceae*

**37. *Schenkia spicata* (L.) Mans.**

**Gr** Sikinos: SE of Hora, rocky phrygana in seasonally

damp valley, on schist, 150 m, 36°41'34" N, 25°07'28" E, 03.03.2005, *Biel* 05.089.

Reported from Kimolos, Milos and Sifnos.

#### *Geraniaceae*

**38. *Erodium ciconium* (L.) L'Hér.**

**Gr** Sikinos: Alopronia, sandy beach near river, 2 m, 36°40'35" N, 25°08'43" E, 28.02.2005, *Biel* 05.037. New for eparchia.

#### *Lamiaceae*

**39. *Lamium amplexicaule* L.**

**Gr** Folegandros: NE of Hora, rocky phrygana near paved concrete road to the monastery of Ag. Ioannis, on marble and limestone, 240 m, 36°37'50" N, 24°55'23" E, 06.03.2005, *Biel* 05.004.

Reported from Kimolos, Milos, Sifnos and Sikinos.

#### *Linaceae*

**40. *Linum nodiflorum* L.**

**Gr** Folegandros: S-SW of Karavostasis, rocky phrygana in depression, on marble and limestone, 60 m, 36°36'37" N, 24°56'38" E, 09.03.2005, *Biel* 05.051.

New for eparchia.

#### *Portulacaceae*

**41. *Portulaca oleracea* L.**

**Gr** Folegandros: Karavostasis, road margins and waste land, on gravelly schist, 10 m, 36°37'01" N, 24°56'59" E, 28.10.2004, *Biel* 04.001.

— Sikinos: Hora, road margins and waste land, on limestone and sandstone, 280 m, 36°41'47" N, 25°07'18" E, 30.10.2004, *Biel* 04.004.

Another locality noted SW of Alopronia. New for eparchia.

#### *Primulaceae*

**42. *Cyclamen graecum* Link**

**Gr** Folegandros: S-SW of Karavostasis, phrygana and grazed terraces, on marl and schist, 80 m, 36°36'31" N, 24°56'44" E, 09.03.2005, *Biel* 05.055 & 05.056.

Reported from Sifnos and Sikinos; noted from several sites on Sikinos.

#### *Rubiaceae*

**43. *Crucianella latifolia* L.**

**Gr** Folegandros: S-SW of Karavostasis, rocky phrygana in depression, on marble and limestone, 60 m, 36°36'37" N, 24°56'38" E, 28.10.2004, *Biel* 04.019; S-SE of Ano Meria, rocky phrygana

slope, on marble, 130 m,  $36^{\circ}38'07''$ N,  $24^{\circ}52'19''$ E, 18.05.2005, Biel 05.142.

Reported from Kimolos, Milos, Sifnos and Sikinos; noted near Ag. Fotini, NE of Hora on Sikinos.

#### *Sapindaceae*

##### **44. *Cardiospermum microcarpum* Kunth**

**Gr** Sikinos: Hora (Kastro), path margins and waste land in village, on limestone and sandstone, 280 m,  $36^{\circ}41'47''$ N,  $25^{\circ}07'18''$ E, 30.10.2004, Biel 04.003.

An introduced weed from tropical America, sometimes treated as a variety of *C. halicacabum*. Unmistakeable on account of its fruits, balloon-like when ripe. Noted as spreading along roadsides and on garden fences in Kriti, Zakynthos, Kefallinia, Patras, Andros, Simi, Thessaloniki, etc., but in Kiklades so far reported only from the island of Andros (eparchia Androu). New for eparchia.

#### *Scrophulariaceae*

##### **45. *Cymbalaria microcalyx* subsp. *dodecanesi***

Greuter

**Gr** Sikinos: W-NW of Hora, terraced slope with fruit trees, on schist,  $36^{\circ}41'48''$ N,  $25^{\circ}06'54''$ E, 130 m, 01.11.2004, Biel 04.019.

New for eparchia.

##### **46. *Scrophularia canina* L. subsp. *canina***

**Gr** Folegandros: N of Hora, rocky phrygana and abandoned terraces below village, on limestone, 180 m,  $36^{\circ}37'48''$ N,  $24^{\circ}55'06''$ E, 07.03.2005, Biel 05.024; W-NW of Karavostasis, river valley with phrygana, on rocky limestone, 100 m,  $36^{\circ}37'10''$ N,  $24^{\circ}56'10''$ E, 07.03.2005, Biel 05.027a.

Three other localities noted at Akr. Ag. Sostis, N-NE of Angali and Ag. Anargyri. New for eparchia.

#### *Solanaceae*

##### **47. *Lycium europaeum* L.**

**Gr** Sikinos: E-SE of Alopronia, abandoned terraces with phrygana, on limestone and schist, 5 m,  $36^{\circ}40'29''$ N,  $25^{\circ}09'00''$ E, 28.02.2005, Biel 05.042.

Three other localities noted at Hora-Milonas, W-SW of Hora and W-NW of Hora. Reported from Milos and Folegandros; noted from ten other localities on Folegandros including S of Angali, Ano Meria-Galifos, Ano Meria-Ag. Sostis and Hora.

#### *Urticaceae*

##### **48. *Parietaria lusitanica* L.**

**Gr** Sikinos: Hora-Apano, road margins and stone

steps, 280 m,  $36^{\circ}41'38''$ N,  $25^{\circ}07'01''$ E, 31.10.2004, Biel 04.012; N-NE of Hora, steep slope with phrygana, on schist, 100 m,  $36^{\circ}42'02''$ N,  $25^{\circ}07'19''$ E, 01.11.2004, Biel 04.047.

Another locality noted NW of Hora. New for eparchia.

#### *Amaryllidaceae*

##### **49. *Narcissus serotinus* L. (Fig. 4)**

**Gr** Folegandros: S of Karavostasis, rocky phrygana slope, on marble and limestone, 20 m,  $36^{\circ}36'46''$ N,  $24^{\circ}56'56''$ E, 28.10.2004, Biel 04.004.

Three other localities noted at Ag. Anargyri, Vardia bay and SW of Karavostasis.

— Sikinos: SE of Hora, E-SE of Hora and NW of Alopronia, Biel obs.

New for eparchia, otherwise reported only from Milos in 1787. John Hawkins who accompanied John Sibthorp and Ferdinand Bauer on their travels to Greece wrote, "At Milo and Zante I found in the months of November and December a small species of *Narcissus*". Hawkins was on Zakynthos (Zante) in November 1787 but visited Milos in June 1787 when the *Narcissus* was not in flower.

##### **50. *Sternbergia sicula* Guss.**

**Gr** Sikinos: SW of Hora, phrygana and terraces near Milonas, on limestone and schist, 340 m,  $36^{\circ}40'50''$ N,  $25^{\circ}05'54''$ E, 31.10.2004, Biel 04.014; S-SW of Hora, phrygana and terraces E of Episkopi, on limestone and sandstone, 340 m,  $36^{\circ}40'12''$ N,  $25^{\circ}06'03''$ E, 31.10.2004, Biel 04.036.

Two other localities noted NE of Episkopi. Reported from Folegandros and Sifnos; also noted from Hora-Ag. Ioannis on Folegandros.



Fig. 4. *Narcissus serotinus* from Serifos (photo B. Biel).

*Cyperaceae***51. *Carex divisa* Huds.**

**Gr** Folegandros: S of Karavostasis, wet meadow in valley, on limestone and schist, 20 m, 36°36'28" N, 24°57'04" E, 07.03.2005, *Biel* 05.017.

Another locality noted at the camping area of Karavostasis. Reported from Kimolos, Milos and Poliegos.

*Iridaceae***52. *Romulea bulbocodium* (L.) Sebast. & Mauri**

**Gr** Folegandros: Karavostasis, fallow fields, on gravelly schist, 10 m, 36°37'01" N, 24°56'59" E, 06.03.2005, *Biel* 05.001; S of Angali, abandoned terraces in gorge, on schist, 20 m, 36°37'41" N, 24°53'45" E, 08.03.2005, *Biel* 05.046a.

Two other localities noted at Angali-Aghia Triada and S of Karavostasis.

— Sikinos: SW of Hora, phrygana and terraces, on schist and sandstone, 440 m, 36°41'18" N, 25°06'47" E, 27.02.2005, *Biel* 05.020; S-SW of Hora, phrygana and terraces near the chapel of Episkopi, on limestone and schist, 320 m, 36°40'08" N, 25°05'29" E, 27.02.2005, *Biel* 05.025; E-NE of Hora, rocky phrygana with *Juniperus*, on marble and limestone, 260 m, 36°42'02" N, 25°08'14" E, 01.03.2005, *Biel* 05.059.

Several other localities noted including Hora-Stamatini, Hora-Ag. Mamas and SW of Alopronia. Otherwise reported only from Milos.

**53. *Romulea linaresii* subsp. *graeca* Bég.**

**Gr** Sikinos: S-SW of Hora, phrygana and terraces, on limestone and schist, 320 m, 36°40'08" N, 25°05'29" E, 27.02.2005, *Biel* 05.026; E-NE of Hora, burnt phrygana on terraces, on schist, 250 m, 36°42'24" N, 25°09'41" E, 01.03.2005, *Biel* 05.062.

Two other localities noted E-SE of Hora (near a sports field) and at Hora-Episkopi. New for eparchia.

*Juncaceae***54. *Juncellus laevigatus* subsp. *distachyos* (All.) P.H. Davis**

**Gr** Sikinos: N-NW of Alopronia, heavily grazed phrygana slope, at Monopati, on limestone and schist, 140 m, 36°41'15" N, 25°08'23" E, 26.02.2005, *Biel* 05.011; SE of Hora, rocky phrygana in seasonally damp valley, on schist, 150 m, 36°41'34" N, 25°07'28" E, 03.03.2005, *Biel* 05.091.

Reported from Sifnos.

*Liliaceae***55. *Bellevalia hyacinthoides* (Bertol.) K. Perss. &**

Wendelbo

**Gr** Sikinos: S-SW of Hora, rocky phrygana and terraces at Paleo Monopati, NE of Episkopi, on schist and sandstone, 330 m, 36°40'17" N, 25°05'43" E, 27.02.2005, *Biel* 05.024; S-SW of Hora, burnt phrygana on terraces at Monopati directly north of pass, on schist, 500 m, 36°40'26" N, 25°06'25" E, 27.02.2005, *Biel* 05.035; S of Hora, rocky phrygana at Paleo Monopati, on limestone and marble, 140 m, 36°40'10" N, 25°07'06" E, 02.03.2005, *Biel* 05.074.

Several other localities noted including at Hora-Ag. Mamas, SW of Alopronia, S-SW of Episkopi and W-SW of Hora. Reported and noted from several localities on Folegandros.

**56. *Colchicum cupanii* Guss.**

**Gr** Sikinos: S-SW of Hora, phrygana and terraces above Episkopi, near Ag. Anna, on schist and sandstone, 330 m, 36°40'13" N, 25°05'30" E, 31.10.2004, *Biel* 04.016.

Several other localities noted including Hora-Vorino, SW of Hora (Sto Milo) and N-NE of Hora. Reported from Folegandros, Milos, Poliegos and Sifnos; noted at five sites on Folegandros.

*Poaceae***57. *Gastridium phleoides* (Nees & Meyen) C.E. Hubb.**

**Gr** Folegandros: SW of Karavostasis, rocky phrygana slopes at Monopati, on marble and limestone, 60 m, 36°36'46" N, 24°56'39" E, 28.10.2004, *Biel* 04.018.

— Sikinos: Hora, road margins and waste land in village, on limestone and sandstone, 280 m, 36°41'47" N, 25°07'18" E, 21.05.2005, *Biel* 05.131.

Two other sites noted N-NW of Alopronia and E-SE of Hora. New for eparchia.

**58. *Parapholis incurva* (L.) C.E. Hubb.**

**Gr** Sikinos: village of Alopronia, 36°40'32" N, 25°08'46" E, 28.02.2005, *Biel* obs.

Reported from Folegandros, Kardiotissa, Milos, Poliegos and Sifnos.

**59. *Setaria adhaerens* (Forssk.) Chiov.**

**Gr** Sikinos: Hora, road margins and waste land in village, on limestone and sandstone, 280 m, 36°41'47" N, 25°07'18" E, 30.10.2004, *Biel* 04.005.

New for eparchia.

**60. *Setaria viridis* (L.) P. Beauv.**

**Gr** Folegandros: SE of Angali, olive terraces, on limestone, 150 m, 36°37'40" N, 24°54'13" E, 17.05.2005, Biel 05.138a.

— Sikinos: noted at Hora-Kastro and Hora-Vorino. New for eparchia.

All cited vouchers are kept in the private herbarium of B. Biel at Höchberg (herb. Biel). We thank Prof. Dr Hildemar Scholz, Berlin, for determining or confirming our identifications of the Poaceae.

**Reports 61–65****Feruzan Dane & Mehmet Aybeke**

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**Ranunculaceae****61. *Clematis flammula* L.**

**Tu(E)** A1(E) Edirne: Keşan, between

Keşan – Gelibolu, Korudağı picnic area, 162 m, 40°44'00" N, 26°43'00" E, 14.06.1985, coll. N. Başak & F. Dane (EDTU 235).

New for A1(E): Edirne in European Turkey. So far the species has been known from A1(E): Çanakkale, A2(E): İstanbul, Rumelihisarı (Davis & al. 1965).

**62. *Clematis vitalba* L.**

**Tu(E)** A1(E) Edirne: Centre, around the Faculty of Medicine, 41 m, 41°40'28" N, 26°33'39" E, 07.03.1994, coll. G. Dalgıç (EDTU 2154); Keşan, Mecidiye road, 61 m, 40°38'20" N, 26°32'14" E, 04.08.1996, coll. G. Dalgıç (EDTU 3628); Keşan, Yayla village, 59 m, 40°38'00" N, 26°24'00" E, 11.08.2001, coll. A. Dalgıç & G. Dalgıç (EDTU 8270).

New for A1(E): Edirne in European Turkey. So far the species has been known from A1(E): Tekirdağ, A2(E): İstanbul, Zekeriyaköy (Davis & al. 1965).

**63. *Clematis viticella* L.**

**Tu(E)** A1(E) Edirne: Keşan, between Keşan – Çeltikköy, at the roadside, 167 m, 40°41'00" N, 26°33'00" E, 11.06.1987, N. Başak & al. (EDTU 1087); Centre, between Sığircalı – Meşeli, 106 m, 41°24'40" N, 26°38'59" E, 30.06.1987, coll. G. Dalgıç & al. (EDTU 1126); Keşan, at the Mecidiye coastal road, 61 m, 40°38'20" N, 26°32'14" E, 11.06.1987, coll. F. Dane & al. (EDTU 1445).

New for A1(E): Edirne in European Turkey. So far

the species has been known from A2(E): İstanbul, Rumelihisarı. According to Davis & al. (1965), it occurs in Romania and in the Balkans.

**64. *Consolida orientalis* (J. Gay) Schrödinger**

**Tu(E)** A1(E) Edirne: Center, Balkanköy, field,

04.06.1985, coll. G. Dalgıç & N. Başak (EDTU 133); Süleoglu, towards Taşlımüsellim, in the field, 193 m, 41°49'00" N, 26°47'00" E, 01.06.1987, coll. F. Dane & G. Olgun (EDTU 704); Center, from Ahıköy to Budakdoğanca 1 km, 76 m, 41°46'00" N, 26°24'00" E, 02.06.1987, coll. G. Dalgıç & al. (EDTU 821); Centre, between Domurcalı – Taşlımüsellim, 2 km, at the roadside, 196 m, 41°49'00" N, 26°49'00" E, 01.06.1987, coll. F. Dane & G. Olgun (EDTU 915); Centre, between Sığircılı – Meşeli, 7 km, 83 m, 41°23'00" N, 26°44'00" E, 09.06.1987, coll. F. Dane & al. (EDTU 990); Centre, Edirne – Kırklareli, 20 km, 41 m, 41°40'28" N, 26°33'39" E, 16.06.1987, coll. F. Dane & al. (EDTU 1325); Edirne, Uzunköprü, along the Edirne – Çanakkale road, 55 km, 7 m, 41°16'10" N, 26°41'10" E, 07.07.1987, coll. G. Dalgıç & al. (EDTU 1697); Centre, at Sarayakpınar cemetery, 41 m, 41°40'28" N, 26°33'39" E, 09.06.1988, coll. G. Dalgıç (EDTU 2159); Keşan, at the Enez crossroad, 108 m, 40°51'21" N, 26°37'49" E, 30.06.1988, coll. N. Başak & al. (EDTU 2165); Centre, Merkez, near Selimiye mosque, 41 m, 41°40'28" N, 26°33'39" E, 10.06.1988, coll. F. Dane (EDTU 2682); Enez, 5 m, 40°43'29" N, 26°04'57" E, 04.05.1987, coll. F. Dane (EDTU 2694); Centre, 41 m, 41°40'28" N, 26°33'39" E, 06.07.1987, coll. F. Dane (EDTU 2723); Havsa, at Sinit pond, 65 m, 41°33'01" N, 26°49'13" E, 30.05.1989, coll. İ.O. Aygun (EDTU 3228).

New for A1(E): Edirne in European Turkey. So far the species has been known from A1(E): Çanakkale, A2(A): İstanbul (Davis 1965).

**65. *Nigella damescena* L.**

**Tu(E)** A1(E) Edirne: Uzunköprü, at Değirmenci dam, 20 m, 41°18'37" N, 26°42'02" E, 23.05.1987, coll. F. Dane & N. Başak (EDTU 855); Center, between Sığircalı – Meşeli, 4 km, 106 m, 41°24'40" N, 26°38'59" E, 09.06.1987, coll. F. Dane & al. (EDTU 967); Center, Hatipköy, Avarız pond, 52 m, 41°49'00" N, 26°34'00" E, 02.06.1987, coll. F. Dane & al. (EDTU 1039); Keşan, between Keşan – Çeltikköy, 167 m, 40°41'00" N, 26°33'00" E, 11.06.1987, coll. N. Başak & al. (EDTU 1090); Center, around the Faculty of

Science and Arts, 41 m, 41°40'28"N, 26°33'39"E, 23.05.1989, coll. F. Dane (EDTU 3447).

New for A1(E): Edirne in European Turkey. So far the species has been known from A1(E): Tekirdağ, A1(A): Çanakkale and A2(E): İstanbul Kilyos (Davis 1965)

## Report 66

### Necmettin Güler

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#### *Orchidaceae*

##### 66. *Orchis italica* Poir.

**Tu(E)** A1(E) Çanakkale: Gelibolu, Karainebeyli village, in the maquis, 68 m, 40°21'N, 26°23'E, 14.04.2007, coll. N. Güler & H. Ersoy (EDTU 9618), det. N. Güler.

A new species for European Turkey known only for Anatolia (Renz & Taubenheim 1984). The closest known locality is in Mt Ida. Therefore, it is not surprising that the taxon was recorded in Çanakkale. This species was found in densely represented populations in one locality in the study area. It occurs in NW, W and S Anatolia and throughout the world, in the Mediterranean Region and the Aegean Islands. It is a Mediterranean element (Renz & Taubenheim 1984). Its distinguishing features from the other species of *Orchis* are the much shorter bracts than ovary; spur clearly directed downwards; all sepals connivent, forming a hood; labellum 3-lobed, middle lobe 2-lobulate, with a conspicuous tooth in-between; all lobules lanceolate, acuminate, irregularly twisted to flexuous; segments of middle lobe of labellum similar to lateral lobes.

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## Reports 67–71

### Çiler Meriç, Gülden Yılmaz & Feruzan Dane

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#### *Fabaceae*

##### 67. *Vicia grandiflora* Scop. var. *grandiflora*

**Tu(E)** A1(E) Kirkclareli: Kofcaz, Kocayazı village, 535 m, 42°00'00"N, 27°16'00"E, 18.06.1986, coll. G. Dalgıç & N. Başak (EDTU 451).

New for A1(E): Kirkclareli. So far the species has been known from A1(E): Edirne (Davis & Plitmann 1970).

##### 68. *Vicia hirsuta* (L.) Gray

**Tu(E)** A1(E) Edirne: Center, around the Faculty of Medicine, 26 m, 41°40'28"N, 26°33'39"E, 28.05.1993, coll. Ç. Meriç (EDTU 5870); Karaagac – Pazarkule, 2 km, 23 m, 41°39'28"N, 26°31'25"E, 21.05.2000, coll. N.C. Demirkan (EDTU 7616); Kesan: Camlica, Gokcetepe, 190 m, 40°39'50"N, 26°37'53"E, 10.05.1999, coll. G. Dalgıç (EDTU 7499).

New for A1(E): Edirne. So far the species has been known from A1(E): Kirkclareli and A2(E): İstanbul (Davis & Plitmann 1970).

##### 69. *Vicia lathyroides* L.

**Tu(E)** A1(E) Edirne: Center, Meseli village, 83 m, 41°23'00"N, 26°44'00"E, 06.05.1994, coll. Ç. Meriç (EDTU 6170); Uzunkopru: Degirmeniyeni village, 35 m, 41°45'00"N, 26°33'00"E, 30.04.1994, coll. Ç. Meriç (EDTU 6167).

New for A1(E): Edirne. So far the species has been known from A1(E): Kirkclareli and A2 (E): İstanbul (Davis & Plitmann 1970).

##### 70. *Vicia melanops* Sibth. & Sm.

**Tu(E)** A1(E) Edirne: Center, around the Faculty of Medicine, 26 m, 41°40'28"N, 26°33'39"E, 05.05.1994, coll. Ç. Meriç (EDTU 6185); Lalapasa: Donkoy, 334 m, 41°56'00"N, 26°42'00"E, 02.06.1992, coll. F. Dane & N. Başak (EDTU 5064).

New for A1(E) Edirne. So far the species has been known from A2(E): İstanbul (Davis & Plitmann 1970).

##### 71. *Vicia narbonensis* L. var. *narbonensis*

**Tu(E)** A1(E) Edirne: Center, around the Faculty of Science and Arts, 26 m, 41°40'28"N, 26°33'39"E, 09.06.1989, coll. F. Dane (EDTU 3368); around the Faculty of Science and Arts, 26 m, 41°40'28"N, 26°33'39"E, 20.05.1993, coll. Ç. Meriç (EDTU 5879).

New for A1(E): Edirne in European Turkey. So far the species has been known from A1(E): Tekirdag and A2(E): İstanbul (Davis & Plitmann 1970).

## Reports 72–78

### Antoaneta S. Petrova

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The Black Sea Coast is an area under enormous anthropogenic pressure which has influenced negatively many plant species in the last decades. That is why, some new localities of rare plants, known for the region, are reported here, with population data.

#### Salviniaceae

##### 72. *Salvinia natans* L.

**Bu** Black Sea Coast (*Southern*): at the estuary of a small river at the beach of the Delfin camping site, N of Ahtopol town, Bourgas district, NG-76, 12.09.2005, coll. A.S. Petrova (SOM 163141), forming a dense cover over about 75 m<sup>2</sup>; Bolata Dere locality near cape Kaliakra, Dobrich district, PJ-10, 29.07.2007, observed by A.S. Petrova, growing together with *Hydrocharis morsus-ranae* (Fig. 5).

*Salvinia natans* is included in Annex 1 of the Bern Convention. Its habitats are included in the list of habitats of community interest in Annex 1 of the Directive 92/43. The species is locally distributed in Bulgaria and the above cited localities are reported for the first time.



#### Berberidaceae

##### 73. *Mahonia aquifolium* (Pursh) Nutt.

**Bu** Mt Strandzha: in a *Fagus*-forest along the Tsarevo – Kosti road, before Marina Reka locality, Bourgas district, NG-66, 02.08.2007, coll. A.S. Petrova (SOM 163704).

Planted as an ornamental plant, this species has started to propagate progressively in this locality and spread downwards the slope in *Fagus orientalis* forest.

#### Elaeagnaceae

##### 74. *Elaeagnus multiflora* L.

**Bu** Black Sea Coast (*Southern*): in the dune slacks on the Kiten village beach, Burgas district, NG-67, 12.09.2005, coll. A.S. Petrova (SOM 163143).

The distribution of this ornamental plant, which easily naturalizes, is not well documented. Here it is found in a vulnerable habitat. Another ornamental shrub which is naturalized in those dune slacks is *Mahonia aquifolium*.

#### Rosaceae

##### 75. *Mespilus germanica* L.

**Bu** Balkan Range (*Eastern*): in an oak forest along the road Varna – Bourgas, above Goritsa village, Varna district, NH-65, 31.07.2007, with fruits, coll. A.S. Petrova (SOM 163706).

The species is distributed in Mt Strandzha and along the Southern Black Sea Coast (Assyov & Petrova 2006) and is listed as Rare in the Red Data Book of PR Bulgaria (Popova 1984).

Fig. 5. *Salvinia natans* (photo A.S. Petrova).

**76. *Rosa arvensis* Huds.**

**Bu** Balkan Range (*Eastern*): in an oak forest along the road Varna – Bourgas, after Banya village, NH-63, Bourgas district, 31.07.2007, with fruits, coll. A.S. Petrova (SOM 163705).

A new species for the region (Assyov & Petrova 2006), which forms extensive populations.

***Amaryllidaceae*****77. *Pancratium maritimum* L.**

**Bu** Black Sea Coast (*Southern*): in the dunes between Primorsko and Kiten villages, NG-67, 11.09.2005, A.S. Petrova (obs.); in the dunes S of Kiten village, 42°13'41.4"N, 27°46'36.1"E, NG-67, 13.09.2005, A.S. Petrova (obs.), in the dunes at the Nestinarka camping site, S of Tsarevo town, NG-76, 12.09.2005, A.S. Petrova (obs.). Single individuals were observed at all three localities, the one S of Tsarevo was with fruits. The plant south of Kiten village had flowered but the inflorescence was picked up.

A rare species for the Bulgarian Black Sea Coast. The above cited localities were never reported earlier (Jordanov 1966; Vassilev 1984). Presumably, they could be remains of former larger populations, or newcomers. *Pancratium maritimum* is a significant plant and in the author's opinion those single individuals have been recently established and deserve attention and monitoring. At the same time, considering the huge tourist pressure there, the perspectives are not optimistic.

***Poaceae*****78. *Erianthus ravennae* (L.) P. Beauv.**

**Bu** Black Sea Coast (*Southern*): in the dune slacks S of Kiten village, NG-67, 13.09.2005, coll. A.S. Petrova (SOM 163148).

A rare species (Petrova 1984) found only locally along the Southern Black Sea Coast. Here, despite of the strong pressure of the recreation industry, there is still a population numbering about 150–170 plants of different age.

**Report 79****Antoaneta S. Petrova<sup>1</sup>, Hristo Hristov<sup>2</sup> & Vladimir Trifonov<sup>3</sup>**

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***Orchidaceae*****79. *Limodorum abortivum* subsp. *mezekii* Delip. & Cheshm.**

**Bu** Rhodopi Mts (*Eastern*): near Dolni Glavanak village, 41°40'33"N, 25°49'29"E, MG-01, 17.06.2004, observed by A.S. Petrova, H. Hristov & V. Trifonov; 06.06.2007, observed by A.S. Petrova & V. Trifonov.

Hypochrom form with green stems, small green leaves and pure white flowers (Fig. 6b). Described by Delipavlov & Chesmedzhiev (1997) near Mezek village, Thracian Plain (about 25 km far from the new locality). Similar to *L. abortivum* f. *gracile* (B. Willing & E. Willing) P. Delforge from Arcadia (Greece).

The biology of *L. abortivum* is not well known and there is some uncertainty if it is a saprophytic, or, because to the connection of roots with tree species, a parasitic. By no doubt, it is a mycoheterotrophic, due to the presence of chlorophyll (Delforge 2006), which is very obvious here. In 2004 10 stems were observed (probably of 2 individuals – Fig. 6a). No plants were observed in 2005–2006 (we had repeated observation on the exact place), but in 2007 there were 2 plants (with 1 and 2 stems). Dormancy periods are common for the species, in dry years, or in places with dense vegetation, as it is here.

**Report 80–83****Gülsemin Savaş, Nesibe Başak, Gülden Yılmaz & Feruzan Dane**

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These are new records of some species belonging to *Trifolium* sect. *Amoria* for A1(E): Edirne of European Turkey.

***Fabaceae*****80. *Trifolium balansae* Boiss.**

**Tu(E)** A1(E) Edirne: Center, Karakasım village,

29 m, 41°31'00"N, 26°38'00"E, 09.06.1987, coll. G. Dalgıç & F. Dane (EDTU 1012); Karaagac, 23 m, 41°39'28"N, 26°31'25"E, 15.05.1987, coll. F. Dane (EDTU 675); Sazlıdere village, 80 m, 41°36'00"N,



**Fig. 6.** *Limodorum abortivum* subsp. *mezekii* (photo A.S. Petrova).

26°41'00" E, 21.05.1999, coll. G. Savaş (EDTU 7374); Havsa, at Sinit lake, 65 m, 41°33'01" N, 26°49'13" E, 20.05.1999, coll. G. Savaş (EDTU 7366); Kesan, Yerlisu, around Mt Koru, 162 m, 40°44'00" N, 26°43'00" E, 06.05.1999, coll. N. Başak & N. Güler (EDTU 7483); Süloglu, near Suloglu dam, 156 m, 41°46'02" N, 26°54'43" E, 01.06.1999, coll. N. Başak & N. Güler (EDTU 7446). New for A1(E): Edirne in European Turkey. So far the species has been known from A2(E): Istanbul (Zohary 1970).

### 81. *Trifolium hybridum* L. var. *hybridum*

**Tu(E)** A1(E) Edirne: Center, Musabeyli village, 109 m, 41°41'00" N, 26°40'00" E, 23.06.1989, coll. F. Dane & N. Aktaç (EDTU 3575); Tayakadin village, 26 m, 41°40'28" N, 26°33'39" E, 07.06.1989, coll. F. Dane & N. Polat (EDTU 3254); Kucukdolluk village, 132 m, 41°45'00" N, 26°40'00" E, 16.07.1999, coll. G. Savaş (EDTU 7413).

New for A1(E): Edirne in European Turkey. So far the species has been known from A2(E): Istanbul (Zohary 1970).

### 82. *Trifolium repens* L. var. *giganteum* Lagr.-Foss.

**Tu(E)** A1(E) Edirne: Center, Trakya University, the Faculty of Science and Arts, around Gullapoglu Campus, 26 m, 41°40'28" N, 26°33'39" E, 16.05.1998, coll. G. Savaş (EDTU 7339); Keşan, Kizkapan village, 157 m, 40°44'00" N, 26°29'00" E, 22.05.1999, coll. G. Savaş (EDTU 7395);

Suloglu, near Suloglu dam, 156 m, 41°46'02"N, 26°54'43"E, 01.06.1999, coll. N. Başak & N. Güler (EDTU 7443).

New for A1(E): Edirne in European Turkey. So far the species has been known from A2(E): Istanbul (Zohary 1970).

### 83. *Trifolium repens* L. var. *repens*

**Tu(E)** A1(E) Edirne: Center, Tayakadin village, 26 m, 41°40'28"N, 26°33'39"E, 02.05.1998, coll. G. Savaş (EDTU 7327); Kucukdollek village, 132 m, 41°45'00"N, 26°40'00"E, 16.07.1999, coll. G. Savaş (EDTU 7414); Havsa, E-5, at the roadside, 65 m, 41°33'01"N, 26°49'13"E, 25.07.1998, coll. G. Savaş (EDTU 7357); Uzunkopru, Kurttepe village, 95 m, 41°22'00"N, 26°43'00"E, 04.08.1998, coll. G. Savaş (EDTU 7350); Keşan, Yerlisu village, 162 m, 40°44'00"N, 26°43'00"E, 25.05.1999, coll. N. Başak & N. Güler (EDTU 7454); Enez, 5 m, 40°43'29"N, 26°04'57"E, 13.06.1997, coll. N. Başak & N. Güler; Meriç, 20 m, 41°11'22"N, 26°25'03"E, 10.06.1998, coll. N. Başak & N. Güler (EDTU 7362); Lalapasa, Hamzabeyli – Donkoy, 4 km, 391 m, 41°57'50"N, 26°38'39"E, 21.05.1992, coll. N. Gaziyiz (EDTU 4902).

New for A1(E): Edirne in European Turkey. So far the species has been known from A2(E): Istanbul (Zohary 1970).

FP-32, 12.08.2005, coll. A. Seregin & al. E-851, det. E. Kljuykov (MW).

A new species for Forebalkan (Western).

### 85. *Smyrnium rotundifolium* Mill.

**Bu** Forebalkan (Western): Vidin district, Chouprene municipality, 7.5 km S-SW of Belogradchik town, N slope of peak Studeni, between cuesta scarp and the summit, in an *Acer-Tilia* forest, 920 m, 43°33'50"N, 22°38'50"E, FP-32, 12.08.2005, coll. A. Seregin & al. E-838, det. E. Kljuykov (MW).

A new species for the Forebalkan (Western).

### Asteraceae

#### 86. *Achillea distans* Waldst. & Kit.

**Bu** Forebalkan (Western): Vidin district, Belogradchik municipality, Belogradchishki Skali Nature Park, Belogradchik town, in the upper part of the park, at the path margin, 540 m, 43°37'20"N, 22°41'00"E, FP-33, 05.08.2005, coll. A. Seregin & M. Bocharnikov E-569 (MW).

A new species for the Forebalkan (Western).

#### 87. *Picris echioides* L.

**Bu** Mt Strandzha: Bourgas district, Primorsko municipality, 25 km S-SE of Bourgas city, 10 km W of Primorsko town, in the E outskirts of Yasna Polyana village, at the highway margin, 30 m, 42°16'30"N, 27°37'30"E, NG-58, 18.08.2005, coll. A. Seregin & M. Bocharnikov E-982 (MW).

A new species for Mt Strandzha.

### Crassulaceae

#### 88. *Sedum annuum* L.

**Bu** Forebalkan (Western): Vidin district, Belogradchik municipality, Belogradchishki Skali Nature Park, in the S outskirts of Belogradchik town – on a view ground, flat rock surface, 540 m, 43°37'20"N, 22°41'00"E, FP-33, 05.08.2005, coll. A. Seregin & M. Bocharnikov E-543, det. V. Byalt (MW); between Kaleto fortress and the summer theatre, on flat rock surface, 600 m, 43°37'20"N, 22°40'50"E, 05.08.2005, coll. A. Seregin & M. Bocharnikov E-598 (MW).

A new species for the Forebalkan (Western).

### Fabaceae

#### 89. *Astragalus glycyphylloides* DC.

**Bu** Mt Strandzha: Bourgas district, Malko Turnovo municipality, Strandzha Nature Park, 40 km S of Bourgas city, 1 km N-NE of Zvezdets village, at the stony edge of an old highway, 330 m,

## Reports 84–94

### Alexey P. Seregin

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The species published in this report have been collected in August 2005 during a students visit from Moscow University (Faculty of Geography) to Bulgaria.

### Apiaceae

#### 84. *Seseli peucedanoides* M. Bieb.

**Bu** Forebalkan (Western): Vidin district, Chouprene municipality, 7.75 km S-SW of Belogradchik town, at the summit of peak Studeni, S limestone slope, in a mountain grassland (*Melica ciliata* + herbs) with sparse trees of *Fraxinus* and bushes of *Syringa vulgaris*, 990 m, 43°33'40"N, 22°38'40"E,

42°07'10"N, 27°25'20"E, NG-36, 21.08.2005, coll.

A. Seregin & M. Bocharknikov E-1025 (MW).

A new species for Mt Strandzha.

#### *Malvaceae*

##### **90. *Althaea cannabina* L.**

**Bu** Mt Strandzha: Bourgas district, Tsarevo municipality, 45 km SE of Bourgas city, 3.75 km SW of Tsarevo town, on S slope of a crest of Mt Strandzha, at the highway margin near Izgrev village, 160 m, 42°08'40"N, 27°48'20"E, NG-66, 16.08.2005, coll. A. Seregin & M. Bocharknikov E-931 (MW).

A new species for Mt Strandzha.

#### *Rosaceae*

##### **91. *Spiraea media* F. Schmidt**

**Bu** Forebalkan (Western): Vidin district, Chouprene municipality, 7 km S-SW of Belogradchik town, on N slope of peak Studeni, at the foot of limestone cuesta scarp, on the margin of a scrub forest on a scree, c. 800 m, 43°33'50"N, 22°38'40"E, FP-32, 12.08.2005, coll. A. Seregin & al. E-830 (MW).

A new species for the Forebalkan (Western).

#### *Liliaceae s.l.*

##### **92. *Allium paniculatum* L.**

**Bu** Forebalkan (Western): Vidin district, Chouprene municipality, 7.75 km S-SW of Belogradchik town, at the summit of peak Studeni, on S limestone slope, in a mountain meadow (*Melica ciliata* + herbs) with sparse trees of *Fraxinus* and bushes of *Syringa vulgaris*, 990 m, 43°33'40"N, 22°38'40"E, FP-32, 12.08.2005, coll. A. Seregin & al. E-846 (MW).

A new species for the Forebalkan (Western).

#### *Poaceae*

##### **93. *Cleistogenes bulgarica* (Bornm.) Keng**

**Bu** Mt Strandzha: Bourgas district, Malko Turnovo municipality, Strandzha Nature Park, 40 km S of Bourgas city, 3 km NE of Zvezdets village, on the edge of an old highway, 240 m, 42°08'00"N, 27°26'10"E, NG-36, 21.08.2005, coll. A. Seregin & M. Bocharknikov E-1040 (MW).

A new species for Mt Strandzha.

##### **94. *Festuca drymeja* Mert. & Koch**

**Bu** Forebalkan (Western): Vidin district, Belogradchik municipality, Belogradchishki Skali Nature Park, 1.5 km SW of Belogradchik town, along a road in a *Carpinus orientalis*

forest at the valley bottom, 420 m, 43°36'40"N, 22°40'30"E, FP-33, 07.08.2005, coll. A. Seregin & M. Bocharknikov E-675 (MW).

A new species for the Forebalkan (Western).

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## Reports 95–98

### Kit Tan<sup>1</sup> & Margarita Issigoni<sup>2</sup>

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This is the second report of a few new floristic records for the Nomos of Attikis, Eparchia of Eginis, island of Egina in the phytogeographical region Peloponnese (Pe) as circumscribed in *Flora Hellenica* (Strid & Tan 1997).

#### *Asteraceae*

##### **95. *Aster squamatus* (Spreng.) Hieron.**

**Gr** NE of Souvala, seaside, 0.5 m, 37°46'27"N, 23°29'48"E, end of October 2007, coll. M. Issigoni. This autumn-flowering roadside weed originating from C and S America is now naturalized on the island and fast spreading as in the rest of Greece, mainly in coastal areas south of 40°N. New for eparchia Eginis.

##### **96. *Echinops graecus* Mill.**

**Gr** NE of Agioi, in field by the sea, together with *Fumana thymifolia*, *Anthyllis hermanniae* and *Thymus* spp., c. 2 m, 37°46'24"N, 23°30'48"E, 13.06.2007, coll. M. Issigoni.

A Greek endemic recorded from the phytogeographical regions of Sterea Ellas (Attikis)

and East Central on the mainland, and from the West Aegean islands and the Kiklades. New for eparchia Eginis and also for the Peloponnese.

#### *Brassicaceae*

##### 97. *Erophila praecox* (Steven) DC.

**Gr** S of Souvala, phrygana in open *Pinus halepensis* forest, on limestone together with *Gagea reticulata*, *Colchicum cupanii* and *Bellevalia hyacinthoides*, 45 m, 37°45'58"N, 23°29'37"E, 12.01.2008, coll. M. Issigoni.

Also noted SE of Agioi, at the 100 m summit of a hill near Vrouva. Occurring mainly in the Mediterranean region. *Gagea reticulata* is also new for the island (see Tan & Issigoni 2007: 448); there is a previous report of *Colchicum cupanii* but from the area of Afeas (Vallianatou & Yannitsaros 2000: 317).

#### *Rubiaceae*

##### 98. *Rubia tinctorum* L.

**Gr** N of Vaia, by the sea, on banks of dried-up stream, sea level, 37°46'19"N, 23°32'12"E, towards the end of August 2007, coll. M. Issigoni. Scattered on mainland and islands, locally naturalized on seashores. Native to W and C Asia. Surprisingly, only one other record has been reported from the Peloponnese, from Mt Killini at 1000–1400 m.

## Reports 99–104

### Kit Tan<sup>1</sup>, George Sfikas<sup>2</sup> & Gert Vold<sup>3</sup>

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Continuing a series of new plant-records based on further floristic investigations in Greece. The floristic regions adopted follow those circumscribed in *Flora Hellenica* (Strid & Tan 1997).

#### *Apiaceae*

##### 99. *Johrenia distans* (Griseb.) Halász

**Gr** Nomos Achais, Eparchia Kalavriton: Boufouskia to Plataniotissa, conglomerate rock faces of gorge, 550–600 m, 38°08'N, 22°05'E, 15.07.2007, Kit Tan & G. Vold 29630 (herb. Kit).

Confirming old collections in N Peloponnese.

Reported only from Mt Killini (in June 1852, *Orphanides*) and from the vicinity of the monastery of Mega Spileo, in June 1893, Halász (WU-Hal) and June 1893, Grimburg (GB). The gorge where the plants were found runs parallel to the Vouraikos gorge which is fairly well-known botanically.

#### 100. *Seseli tortuosum* L.

**Gr** Nomos Ioanninon, Eparchia Dodonis: c. 17 km from Ioanninon on road to Metsovon, near Mazia, on limestone rock and roadside gravel, c. 900 m, 39°40'N, 20°56'E, 17.11.2007, Kit Tan & G. Vold 29647 (C, GB, herb. Kit, herb. Sfikas; seed collected).

New for Northern Pindos (NPi). Late-flowering and rarely collected in mature fruit.

#### *Asteraceae*

##### 101. *Jurinea mollis* (L.) Rchb.

**Gr** Nomos Ioanninon, Eparchia Konitsis: NW slopes of Trapezitsa, on track to Rodovouni, limestone cliffs and rocks in *Abies borisii-regis* and *Pinus* forest, 1700 m, 40°03'N, 20°47'E, 08.07.2007, Kit Tan & G. Vold 29563 (herb. Kit; seed also collected).

New for Mt Trapezitsa in N Pindos.

#### *Lamiaceae*

##### 102. *Phlomis samia* L.

**Gr** Nomos Achais, Eparchia Patron: Mt Panachaiko, stony and rocky places on way from Ano Souli to summit (Prof. Ilias), 1350 m, 38°10'N, 21°49'E, 14.07.2007, Kit Tan & G. Vold 29612 (C, herb. Kit, herb. Sfikas).

Surprisingly for such a conspicuous plant nearly one metre in height, a first record for Mt Panachaiko in N Peloponnese.

#### 103. *Scutellaria rupestris* subsp. *parnassica* (Boiss.) Greuter & Burdet

**Gr** Nomos Achais, Eparchia Patron: Mt Panachaiko, along track to summit (Prof. Ilias), eroded and deforested, stony and gravelly limestone slopes together with *Alyssum* and *Dianthus androsaceus*, 1400–1500 m, Kit Tan & G. Vold 29616 (herb. Kit; seed collected).

New for Mt Panachaiko in N Peloponnese.

#### *Plumbaginaceae*

##### 104. *Goniolimon sartorii* Boiss.

**Gr** Nomos Lesvou, Eparchia Limnou: island of Limnos, coastal sand near Agios Sózon, near sea

level, 39°48'N, 25°22'E, 15.06.2002, Sfikas 13467  
(herb. Kit, herb. Sfikas).

New for the N Aegean area (NAe), confirming a previous report by Panitsa & al. (2003) for the island of Limnos. However, their specimen from Agios Sózon is identified as *G. collinum* (Griseb.) Boiss. and *G. sartorii* was separately reported by them from another locality on Limnos (from Evraeokastro). It is thus possible that both taxa occur in the same locality.

*Goniolimon sartorii*, previously known only from Attikis, Evvia and the Kiklades, closely resembles *G. collinum*, differing most obviously in the shape of the basal rosette leaves which are abruptly contracted into the petiole in *G. sartorii* and gradually narrowed into the petiole in *G. collinum*.

## Reports 105–106

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### Cupressaceae

#### 105. *Juniperus sabina* L. (Fig. 7)

**Bu** Rhodopi Mts (Eastern): Gyumyurdzhinski Snezhnik ridge, in the area of Gorno Kapinovo village, Dyuza locality, near peak Veykata, just below the roof on a northern slope above the

alpine timberline, in rocky places, 1215 m, 41°14'47.1"N, 25°15'06.6"E, LF-56, 13.06.2001, coll. A. Tashev (SOM 164048, 164049; SO 104854).

Two compact spots of *Juniperus sabina* L. were found, situated in an area of 150–250 m<sup>2</sup> and several hundred meters apart from each other. Single individuals of *Juniperus communis* occur within the communities. The two spots are situated above the timberline, which is close to the locality and the roof, and is formed by a community dominated by *Fagus orientalis*, with substantial presence of *Acer heldreichii*, occurring in small to large groups. The terrain is highly eroded due to regular overgrazing by goats penetrating from Greece.

This rare and protected in Bulgaria species has been known so far from the following three floristic regions: the Forebalkan (*Western*), Balkan Range (*Central*) and Rila Mts (Assyov & Petrova 2006: 224).

### Asclepiadaceae

#### 106. *Cionura erecta* (L.) Griseb.

**Bu** Thracian Lowland: in the vicinities of Harmanli town, in Prikazkite locality, on a rocky southern slope of 20°, 95 m, 41°55'01.0"N, 25°53'09.1"E, MG-04, 04.08.2007, coll. A. Tashev (SOM 164046, 164047; SO 104851, 104852).

The individuals occur within sparse bush communities consisting of *Syringa vulgaris*, *Paliurus spina-christi*, *Pistacia terebinthus*, *Clematis vitalba*, *Vitis sylvestris*, *Carpinus orientalis*, *Fraxinus ornus*, *Prunus spinosa*,



Fig. 7. *Juniperus sabina* (photo A. Tashev).

*Quercus pubescens*, *Rubus sanguineus*, *Rosa canina*, *Juniperus oxycedrus* and some others. The herbaceous layer is dominated by cereals, and the species with highest coverage include *Chrysopogon gryllus*, *Dichanthium ischaemum*, *Poa bulbosa*, *Brachypodium pinnatum*, etc. Also, many ruderal and weed plants occur in the communities, the therophytes being predominant: *Alyssum alyssoides*, *Arabidopsis thaliana*, *Calepina irregularis*, *Capsella bursa-pastoris*, *Chondrilla juncea*, *Erodium cicutarium*, *Fumaria officinalis*, *Senecio vulgaris*, *Trifolium arvense*, etc. Also, some species of conservation value were found in the locality, such as *Alkanna primuliflora*, *Crepis stojanovii*, *Erodium hoeftianum*, *Scandix australis*, *Achillea depressa*, *Muscaria vandasii*, *Myosotis macedonica* and *Hypericum thasium*.

This species has been known so far from the Black Sea Coast, Valley of Strouma River, the Rhodopi Mts (Eastern), and the Tundzha Hilly Country (Assyov & Petrova 2006: 126).

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