

Changes and additions to the Flora of Greece web (FoG web) January 2021 – July 2022

I. Taxa new to science: 10

- *Allium goumenissanum* Ioannidis & Tzanoud. **sp. nov.**, (Ioannidis & Tzanoudakis 2022), has been added in FoG web.
- *Anthemis melia* Biel & Kit Tan **sp. nov.**, (Biel & Tan 2021a), has been added in FoG web.
- *Anthemis rigida* subsp. *antri-neptuni* Goula & Constantin., **subsp. nov.** (Goula & Constantinidis 2021), has been added in FoG web.
- *Anthemis rigida* subsp. *amorgina* Biel & Kit Tan **subsp. nov.**, (Biel & Tan 2021b), has been added in FoG web.
- *Cephalaria flava* subsp. *askiensis* Kit Tan & Kofinas **subsp. nov.**, (Tan & Kofinas 2021), has been added in FoG web.
- *Colchicum tulakii* Giannakis, Tsiftsis & Elefth. **sp. nov.** (Tsiftsis et al., 2011) has been added in FoG web.
- *Crocus homeri* Rukšāns **sp. nov.**, (Rukšāns 2021), has been added in FoG web.
- *Crocus samarasii* Rukšāns **sp. nov.**, (Rukšāns 2021), has been added in FoG web.
- *Onobrychis lassenii* Kit Tan & Vold **sp. nov.**, (Tan & Vold 2021), has been added in FoG web.
- *Verbascum salicifolium* Zograf., Ioannidis, Liveri & Dimop. **sp. nov.** (Zografidis et al., 2022), has been added in FoG web.

II. Taxon with new status: 1

- *Campanula dimitrii* Strid (≡*Campanula carpatha* var. *oreophila* Phitos), **stat. & nom. nov.**, (Strid 2021a) has been added in FoG web.

III. Taxa new to Greece: 26

- *Aethionema saxatile* subsp. *rhodopaeum* (D.K. Pavlova) Constantin., Kougioum. & Kalpoutz., reported from NE (Doumas et al., 2022), has been added in FoG web.
- *Anthericum ramosum* L., reported from NE (Doumas et al., 2022), has been added in FoG web.
- *Aster amellus* L., reported from NE (Doumas et al., 2022), has been added in FoG web.
- *Centaurea vandasii* Velen., reported from NE (Tan & Kofinas 2022), has been added in FoG web.

- *Datura wrightii* Regel, reported from NAe (Bergmeier 2021a), has been added in FoG web.
- *Dianthus muglensis* Hamzaoğlu & Koç, reported from EAe (Strid 2021b), has been added in FoG web.
- *Epilobium alpestre* (Jacq.) Krock., reported from NC (Gianakis et al., 2021), has been added in FoG web.
- *Euphorbia carniolica* Jacq., reported from NE (Doumas et al., 2022), has been added in FoG web.
- *Galium uliginosum* L., reported from NE (Doumas et al., 2022), has been added in FoG web.
- *Hesperis matronalis* L. subsp. *matronalis*, reported from NE (Doumas et al., 2022), has been added in FoG web.
- *Hieracium bifidum* subsp. *sinuosifrons* (Dahlst.) Zahn, reported from NC and NPi (Dunkel & Gottschlich 2021), has been added in FoG web.
- *Hieracium breazense* Nyár., reported from NPi (Dunkel & Gottschlich 2021), has been added in FoG web.
- *Hieracium juranomorphum* Zahn, reported from NPi (Dunkel & Gottschlich 2021), has been added in FoG web.
- *Hieracium oroglaucum* O. Behr, E. Behr & Zahn subsp. *oroglaucum*, reported from NC (Dunkel & Gottschlich 2021), has been added in FoG web.
- *Hieracium pseudobifidum* Schur, reported from NE (Dunkel & Gottschlich 2021), has been added in FoG web.
- *Hieracium rotundatum* Kit. ex Schult., reported from NE (Dunkel & Gottschlich 2021), has been added in FoG web.
- *Holcus annuus* Salzm. subsp. *annuus*, reported from NAe (Bergmeier et al., 2021a), has been added in FoG web.
- *Lactuca aculeata* Boiss. & Kotschy, reported from NAe (Bergmeier et al., 2021a), has been added in FoG web.
- *Leontodon longirostris* (Finch & P. D. Sell) Talavera, reported from Iol and NAe (Bergmeier 2021b), has been added in FoG web.
- *Pilosella neosyllecta* (K. Malý & Zahn) Gottschl. & Dunkel, reported from NC, NPi and NE (Dunkel & Gottschlich 2021), has been added in FoG web.
- *Pilosella samokovenssis* (T. Georgiev & Zahn) S. Bräut. & Greuter, reported from NC and NE (Dunkel & Gottschlich 2021), has been added in FoG web.
- *Saponaria stranjensis* Jordanov, reported from NE (Doumas et al., 2022), has been added in FoG web.
- *Silene fetlerii* D.K.Pavlova, reported from NE (Doumas et al., 2022), has been added in FoG web.
- *Trachomitum venetum* (L.) Woodson, reported from NE (Doumas et al., 2022), has been added in FoG web.
- *Trifolium pachycalyx* Zohary, reported from NAe (Bergmeier et al., 2021b), has been added in FoG web.

- *Valeriana alliariifolia* Adams, reported from WAe (Trigas et al., 2021), has been added in FoG web.

IV. Additions to the floristic regions of Greece: 121

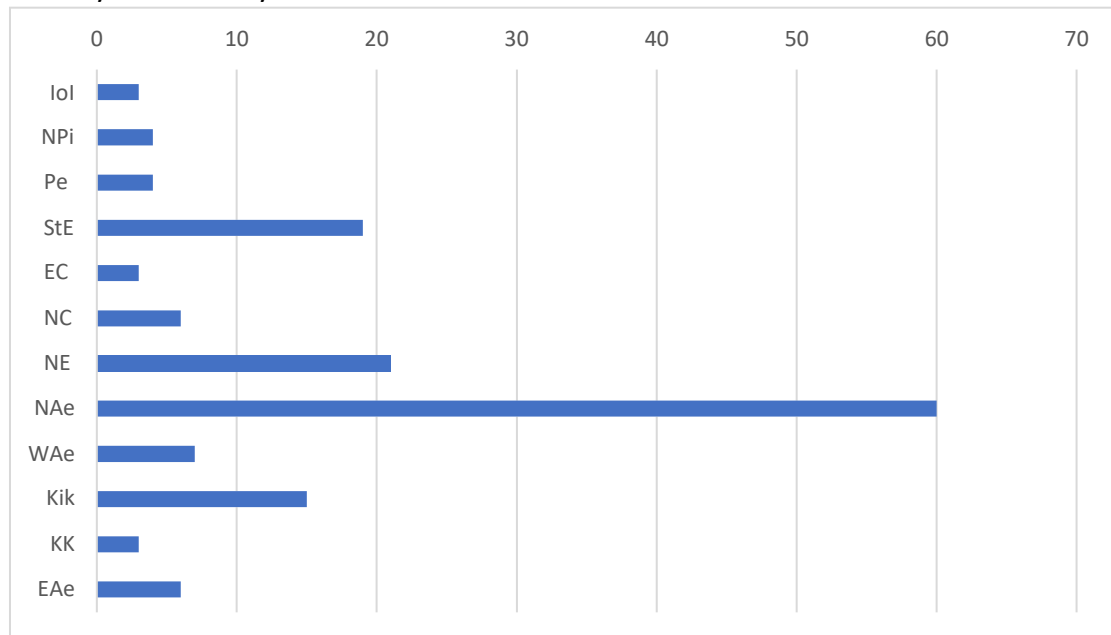
Published in Bergmeier et al., (2021a), Polymenakos et al., (2022), Raab-Straube & Raus (2021a,b), Trigas et al., (2021), Vladimirov et al., (2021a,b,c, 2022).

Taxon name	Addition to floristic region
<i>Aira caryophyllea</i> L.	NAe
<i>Amaranthus emarginatus</i> subsp. <i>pseudogracilis</i> (Thell.) Hügin	StE
<i>Amaranthus spinosus</i> L.	StE
<i>Ambrosia maritima</i> L.	NAe
<i>Anacyclus clavatus</i> (Desf.) Pers.	NAe
<i>Anthemis chia</i> L.	NAe
<i>Artemisia scoparia</i> Waldst. & Kit.	NAe
<i>Artemisia vulgaris</i> L.	Kik
<i>Arum concinatum</i> Schott	NAe
<i>Arum cylindraceum</i> Gasp.	lol
<i>Atriplex davisii</i> Aellen	NAe
<i>Atriplex tatarica</i> L.	KK
<i>Aubrieta scyria</i> Halácsy	StE
<i>Bonannia graeca</i> (L.) Halácsy	StE
<i>Bromus alopecuroides</i> Poir. subsp. <i>alopecuroides</i>	NAe
<i>Bromus arvensis</i> L. subsp. <i>parviflorus</i> (Desf.) H. Scholz	NAe
<i>Bromus secalinus</i> L.	StE
<i>Campanula sparsa</i> Friv	WAe
<i>Capparis sicula</i> Veill.	NAe
<i>Capparis spinosa</i> L. subsp. <i>spinosa</i>	Kik
<i>Cardiospermum halicacabum</i> L.	NAe
<i>Carex leersii</i> F.W. Schultz	NAe
<i>Centaurea jacea</i> subsp. <i>angustifolia</i> (DC.) Gremler	StE
<i>Chaerophyllum nodosum</i> (L.) Crantz	lol
<i>Cladanthus mixtus</i> (L.) Chevall.	NAe
<i>Convolvulus pentapetaloides</i> L.	EC
<i>Coriandrum sativum</i> L.	KiK
<i>Crassula alata</i> (Viv.) A. Berger	StE
<i>Crepis micrantha</i> Czerep.	StE
<i>Cruciata taurica</i> (Pall. ex Willd.) Ehrend.	StE
<i>Descurainia sophia</i> (L.) Prantl	NAe
<i>Echinops spinosissimus</i> subsp. <i>bithynicus</i> (Boiss.) Greuter	StE
<i>Echium arenarium</i> Guss.	NAe

<i>Eleocharis uniglumis</i> (Link) Schult.	Kik
<i>Eragrostis barrelieri</i> Daveau	NAe
<i>Eragrostis minor</i> subsp. <i>angusta</i> H. Scholz & Raus	NAe
<i>Euphorbia esula</i> subsp. <i>tommasiniana</i> (Bertol.) Kuzmanov	EAe
<i>Euphorbia nutans</i> Lag.	NAe
<i>Euphorbia serpens</i> Kunth	StE
<i>Falcaria vulgaris</i> Bernh.	EAe
<i>Frankenia corymbosa</i> Desf.	StE
<i>Gastridium scabrum</i> C. Presl	NAe
<i>Geranium pusillum</i> Burm. f	Kik
<i>Geranium tuberosum</i> L.	KiK
<i>Gladiolus imbricatus</i> L.	NC
<i>Helianthus laetiflorus</i> Pers.	NAe
<i>Heliotropium lasiocarpum</i> Fisch. & C.A. Mey.	NAe
<i>Hesperis matronalis</i> L.	NE
<i>Hieracium racemosum</i> subsp. <i>crinitiforme</i> Zahn	StE
<i>Hypericum fragile</i> Boiss.	StE
<i>Ilex aquifolium</i> L.	Kik
<i>Inula conyzae</i> (Griess.) DC.	NAe
<i>Ipomoea hederacea</i> (L.) Jacq.	NAe
<i>Juncus pygmaeus</i> Rich.	WAe
<i>Jurinea consanguinea</i> DC.	StE
<i>Leontodon saxatilis</i> Lam.	KiK
<i>Lepidium didymum</i> L.	NAe
<i>Limonium sieberi</i> (Boiss.) Kuntze	NAe
<i>Linum decumbens</i> Desf.	Pe
<i>Lolium subulatum</i> Vis.	NAe
<i>Lotus subbiflorus</i> Lag.	NAe
<i>Lythrum thymifolia</i> L.	EC
<i>Medicago bonarotiana</i> Arcang.	NAe
<i>Medicago tuberculata</i> (Retz.) Willd.	NAe
<i>Melilotus sulcatus</i> Desf.	NAe
<i>Mentha suaveolens</i> Ehrh.	NAe
<i>Nothoscordum gracile</i> (Aiton) Stearn	NAe
<i>Oenothera speciosa</i> Nutt.	Kik
<i>Onobrychis arenaria</i> (Kit.) DC.	Kik
<i>Ononis serrata</i> Forssk.	NAe
<i>Opopanax hispidus</i> (Friv.) Griseb.	NAe
<i>Ornithogalum pyrenaicum</i> L. subsp. <i>pyrenaicum</i>	StE
<i>Ornithogalum pyrenaicum</i> subsp. <i>sphaerocarpum</i> (A. Kern.) Asch. & Graebn.	Pe
<i>Ornithogalum refractum</i> Kit. ex Schldl.	EAe
<i>Panicum capillare</i> L.	NAe
<i>Paronychia echinulata</i> Chater	NAe
<i>Petasites hybridus</i> (L.) G. Gaertn., B. Mey. & Scherb.	Pe

<i>Petrorhagia cretica</i> (L.) P.W. Ball & Heywood	NE
<i>Phelipanche gussoneana</i> (Lojac.) Domina, Raab-Straube, Rätzel & Uhlich	KK
<i>Phelipanche hedynoidis</i> Rätzel, Ristow & Uhlich	StE
<i>Phragmites frutescens</i> H. Scholz	NAe
<i>Phyla canescens</i> (Kunth) Greene	NAe
<i>Poa maroccana</i> Nannf.	NAe
<i>Podospermum laciniatum</i> (L.) DC.	NAe
<i>Polypogon maritimus</i> Willd.	NAe
<i>Portulaca nitida</i> (Danin & H.G. Baker) Ricceri & Arrigoni	NAe
<i>Portulaca papillatostellulata</i> (Poelln.) Ricceri & Arrigoni	NAe
<i>Potamogeton schweinfurthii</i> A. Benn.	NAe, Kik
<i>Ranunculus rionii</i> Lagger	NAe
<i>Saccharum spontaneum</i> L.	NAe
<i>Salicornia perennans</i> Willd.	Ne,NAe
<i>Salicornia perennis</i> Mill.	NAe
<i>Saponaria jagelii</i> Phitos & Greuter	NAe
<i>Saxifraga pedemontana</i> subsp. <i>cymosa</i> Engl.	NE
<i>Saxifraga sibirica</i> L.	NE
<i>Schoenoplectus tabernaemontani</i> (C.C. Gmel.) Palla	NAe
<i>Scorzonera austriaca</i> Willd.	NE
<i>Secale strictum</i> subsp. <i>anatolicum</i> (Boiss.) Hammer	NAe
<i>Sedum confertiflorum</i> Boiss.	NE
<i>Sedum dasyphyllum</i> L. subsp. <i>dasyphyllum</i>	KK
<i>Sedum praesidis</i> Runemark & Greuter	Kik
<i>Senecio leucanthemifolius</i> Poir.	NAe
<i>Serapias parviflora</i> Parl.	NAe
<i>Silene auriculata</i> subsp. <i>auriculata</i>	WAe
<i>Silene congesta</i> Sm.	Wae
<i>Smilax excelsa</i> L.	E Ae
<i>Sphenopus divaricatus</i> (Gouan) Rchb.	NAe
<i>Symphytum creticum</i> (Willd.) Greuter & Rech. f.	WAe
<i>Taraxacum</i> sect. <i>Ruderalia</i> Kirschner, H. Øllg. & Štěpánek	NAe
<i>Tradescantia fluminensis</i> Vell.	Kik
<i>Trifolium diffusum</i> Ehrh.	EC
<i>Trifolium obscurum</i> Savi	StE
<i>Tripleurospermum inodorum</i> (L.) Sch. Bip.	StE
<i>Utricularia australis</i> R. Br.	WAe
<i>Veronica praecox</i> All.	KIK
<i>Vicia tenuifolia</i> Roth subsp. <i>tenuifolia</i>	Kik
<i>Viola poetica</i> Boiss. & Spruner	Pe
<i>Vulpia ligustica</i> (All.) Link	NAe
<i>Xeranthemum cylindraceum</i> Sm.	E Ae

The following bar graph shows the distribution of new reports of species and subspecies in the various floristic regions of Greece based on publications from January 2021 to July 2022.



References

Bergmeier, E., Ristow, M., Krause, J., Meyer, S. & Panitsa, M. (2021a) Phytodiversity of Limnos (North Aegean, Greece)—an update and evaluation. *Flora Mediterranea* 31: 233–246.

Bergmeier, E., Ristow, M. & Krause, J. (2021b) *Trifolium pachycalyx* Zohary In: Raab-Straube, E. von & Raus, Th. (ed.), Euro+Med-Checklist Notulae, 14. *Willdenowia* 51: 355–369.

Bergmeier, E. (2021a) *Datura wrightii* Regel In: Raab-Straube, E. von & Raus, Th. (ed.), Euro+Med-Checklist Notulae, 14. *Willdenowia* 51: 355–369.

Bergmeier, E. (2021b) *Leontodon longirostris* (Finch & P. D. Sell) Talavera In: Raab-Straube, E. von & Raus, Th. (ed.), Euro+Med-Checklist Notulae, 14. *Willdenowia* 51: 355–369.

Biel, B. & Tan, K. (2021a) Reports 11–38. In: Vladimirov, V., Aybeke, M. & Tan, K. New floristic records in the Balkans: 45. *Phytologia Balcanica* 27(2): 239–276.

Biel, B. & Tan, K. (2021b) Report 23. In: Vladimirov, V., Aybeke, M. & Tan, K. New floristic records in the Balkans: 44. *Phytologia Balcanica* 27(1): 127–150.

Doumas, P., Goula, K. & Constantinidis, T. (2022) Thirty-two new and noteworthy floristic records from north-eastern Greece. *Biodiversity Data Journal* 10: e81817. <https://doi.org/10.3897/BDJ.10.e81817>

Dunkel, F.G., & Gottschlich, G. (2021) Notes on some taxa of *Hieracium* and *Pilosella* (Asteraceae), new for the Greek flora, II and a nomenclatural comment on *Hieracium "chalsinense"*. *Phytologia Balcanica* 27(1): 71–83.

Giannakis, Th., Tsiftsis, S., Eleftheriadou, E. & Theodoropoulos, K. (2021) *Epilobium alpestre* (Jacq.) Krock. In: Raab-Straube, E. von & Raus, Th. (ed.), Euro+Med-Checklist Notulae, 14. *Willdenowia* 51: 355–369.

Goula, K. & Constantinidis, Th. (2021) Taxonomic diversity and karyology of *Anthemis rigida* (Anthemideae, Asteraceae) in the Aegean, Greece. *Phytotaxa* 484(1): 129–143.

Ioannidis, V. & Tzanoudakis, D. (2022) *Allium goumenissanum* a new autumnal species of *Allium* sect. *Codonoprasum* (Amaryllidaceae) from north Greece. *Phytotaxa* 554 (1): 59–69.

Kalpoutzakis, E., Constantinidis, Th. & Trigas, P. (2019) Chorological additions for some noteworthy taxa of the Greek flora. *Bot. Chron.* 22: 233–249.

Polymenakos, K., Tan, K. & Pantavos, V. (2022) Notes on the flora of Attiki (Sterea Ellas, Greece). *Nordic Journal of Botany* 2022: e03444

Raab-Straube, E. von & Raus, Th. (ed.) (2021a) Euro+Med-Checklist Notulae, 13 [Notulae ad floram euro-mediterraneam pertinentes No. 42]. *Willdenowia* 51: 141–168.

Raab-Straube, E. von & Raus, Th. (ed.) (2021b) Euro+Med-Checklist Notulae, 14 [Notulae ad floram euro-mediterraneam pertinentes No. 42]. *Willdenowia* 51: 355–369.

Rukšāns, J. (2021) Three new *Crocus* (Iridaceae) species from Turkey and the East Aegean Islands. *International Rock Gardener* 144: 72, photogrs.

Strid, A. (2021a) Report 103. In: Vlamidirov, V. & al. (comp.) New floristic records in the Balkans: 46. *Phytologia Balcanica* 27(3): 390–391.

Strid, A. (2021b) Report 109–124. In: Vlamidirov, V. & al. (comp.) New floristic records in the Balkans: 45. *Phytologia Balcanica* 27(2): 264–267.

Tan, K & Kofinas, G. (2021) Reports 78–85. In: Vladimirov, V., Aybeke, M. & Tan, K. New floristic records in the Balkans: 44. *Phytologia Balcanica* 27(1): 127–150.

Tan, K. & Vold, G. (2021) Reports 117–125. In: Vlamidirov, V & al. (comp.) New floristic records in the Balkans: 46. *Phytologia Balcanica* 27(3): 395–400.

Tan, Kit & Kofinas, G. (2022) Notes on *Centaurea vandasii* and *C. wettsteinii* (Asteraceae), two rare and little-known species in the Balkan Peninsula. *Phytologia Balcanica* 28(1): 61–67.

Trigas, P., Kalpoutzakis, E., Kalogiannis, E., Valli, A-Th., Kougioumoutzis, K., Katopodis, K. & Constantinidis, Th. (2021) Noteworthy new floristic records from Greece. *Botanica Serbica* 45(2): 321–331.

Tsiftsis, S., Giannakis, Th., Panajiotidis, S., Eleftheriadou, E. & Theodoropoulos, K. (2021) *Colchicum tulakii* (Colchicaceae), a new species from central Macedonia, northeastern Greece. *Nordic Journal of Botany* 2021: e03207 doi: 10.1111/njb.03207

Vladimirov, V., Aybeke, M. & Tan, K. (comp.) (2021a) New floristic records in the Balkans: 44. *Phytologia Balcanica* 27(1): 127–150.

Vladimirov, V., Aybeke, M. & Tan, K. (comp.) (2021b) New floristic records in the Balkans: 45. *Phytologia Balcanica* 27(2): 239–276.

Vladimirov, V., Aybeke, M. & Tan, K. (comp.) (2021c) New floristic records in the Balkans: 46. *Phytologia Balcanica* 27(3): 373–411.

Vladimirov, V., Aybeke, M. & Tan, Kit (comp.) (2022) New floristic records in the Balkans: 47. *Phytologia Balcanica* 28(1): 126–140.

Zografidis, A., Liveri, E., Ioannidis, V. & Dimopoulos, P. (2022) *Verbascum salicifolium* (Scrophulariaceae) a new species from Central Macedonia, Greece. *Phytotaxa* 552(3) 182–190.