Floristic notes for the plateau of Dervenochoria and Mts Parnitha, Pastra and Kitheronas (nomos Viotias, Sterea Ellas, Central Greece)

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Abstract. Floristic information for the botanically unexplored plateau of Dervenochoria in nomos Viotias (Sterea Ellas, Central Greece) is presented. This includes distributional data for 148 species and subspecies of vascular plants. Two species are reported as new to mainland Greece, 7 for the floristic region Sterea Ellas, 31 for nomos Viotias and 32 for eparchia Thivon. New records are also provided for the mountains Parnitha (11 taxa), Pastra (22 taxa) and Kitheronas (5 taxa) which partly lie in nomos Viotias.

Key words: flora, Greece, new records, Sterea Ellas, wetland and semi-wetland habitats

Introduction

The plateau of Dervenochoria, otherwise known as the “plateau of Skourta”, is located in nomos Viotias and eparchia Thivon which belong to the Greek floristic region Sterea Ellas (StE). It lies between the mountains Parnitha and Pastra at altitudes of 530 to 560 m, covering an area of c. 40 km² (Fig. 1). Five villages are situated around the plateau – Skourta in the north, Pili and Panakto to the west, Prasino to the southwest and Stefani in the south. The five are collectively known as “Dervenochoria” and together with the village of Daphnoula, comprise the former homonymous municipality of Dervenochoria. Two main roads traverse the area, the first in a southeasterly direction connecting Pili with Athens, the second from south to north connecting the villages of Stefani and Skourta. The plateau is surrounded by limestone slopes covered with open Pinus halepensis forest and Quercus cocifera scrub. Flat land with a few Pyrus spinosa shrubs occur at the margins of the area. Within the plateau, scattered trees of Quercus ithaburensis subsp. macrolepis appear, and thickets of Prunus spinosa and Rosa spp. are not uncommon along roads and field margins. Most of the plateau comprises fallow fields, cereal fields and vineyards. Surrounded by low mountains, the plateau gathers large amounts of winter rain, resulting in numerous vernal pools, seasonally flooded flats, semi-wetland and ditches, all of which provide a multitude of habitats for plant communities with interesting taxa (Fig. 2).

Systematic botanical research in Greece has a relatively short history and thus several parts of the country still remain botanically ignored. The flora of Viotia is in general, underexplored and there are areas which have hardly been botanized at all. In the Flora Hellenica database only 13,266 records exist for nomos Viotias as compared to 28,871 for neighbouring Attiki. We were attracted to this area for the reasons stated above and also because the surrounding low mountains have a relatively untouched nature with much floristic interest.
Viotia comprises two former eparchies, Levadas and Thivon and the plateau of Dervenochoria is situated in the latter. Although not far distant from the large cities of Athens and Thiva (Thebes), the plateau has not been explored by botanists or at least we have no information on their collections. There are a considerable number of taxa in the area considered rare in the sense that nomos Viotias is one of their few known localities. It is therefore likely that a botanical study of unexplored fragments of the area would provide interesting data. Our aim is to fill a gap in our floristic knowledge and provide data which could be used by others to designate the site as worthy of protection.

Floristic checklists from eparchia Thivon are indeed few. They include a study on Mt Elikonas (Kokmotos & Georgiadis 2005) and the Aliki area (Constantinidis...
The greatest contribution of plant material from eparchia Thivon is from Willing and Willing (material deposited in Berlin herbarium). In contrast, the mountains Parnitha, Pastra and Kitheronas have been fairly well botanized (Aplada & al. 2007, Constantinidis 1997). Nevertheless, new records were noted from these mountains which partly lie in nomos Viotias. The geographical borders of the prefectures (nomi) of Viotia and Attiki are delimited by the northwest side of Mt Parnitha, eastern and northern slopes of Mt Pastra and the northern foothills of Mt Kitheronas.

Material and methods

The study is based on collections and field observations carried out from 2016 to 2019. The study area is indicated in a map from Google Earth (Fig. 1). Most of the voucher specimens are deposited in ATH (Goulandris Natural History Museum), with a small number kept in ATHU (National and Kapodistrian University of Athens). Families and species are listed in alphabetical order within the major taxonomic groups, mainly following Euro+Med PlantBase (2006+) with a few cases deviating to follow the nomenclature adopted in the Flora Hellenica database (indicated by synonyms). The records characterized as new to Viotia or eparchia Thivon have not been reported in published literature nor contradicted by herbarium material registered for the Flora Hellenica database.

Results and discussion

PTERIDOPHYTA

Isoetaceae

*Isoetes haussknechtii* Troia & Greuter
Plateau of Dervenochoria, 2.2 km NE of village Prasino, vernal pool in cereal fields, clay, 535 m, 38°11'N, 23°32'E, 22.04.2018, Polymenakos 501 (ATH); loc. ibid., 01.06.2019, Polymenakos & Pantavos 834 (ATH).
New for nomos Viotias and the floristic region of Sterea Ellas. A single population of this rare plant was found on the plateau. Its biotope is a vernal pool which in early April is dominated by *Ranunculus peltatus* subsp. *peltatus*. The leaves of *Isoetes haussknechtii* are then already visible, emerging from the water (Fig. 14). Some rare taxa such as *Montia arvensis* and *Myosotis sicula* occur at the muddy edges of the pool and when the latter dries out, the mud is covered with *Ranunculus lateriflorus*, *R. ophioglossifolius*, *Juncus pygmaeus*, *J. tenageia*, *J. minutulus* and *Verbena supina*.

Although treated as a distinct species by Troia and Greuter (2015) *I. haussknechtii* may possibly represent the terrestrial or amphibious form of the aquatic *I. heldreichii* Wettst. which was reported from the same locality but never found again and presumed ‘extinct’ by Troia and Greuter (2015).

*Isoetes histrix* Bory (Fig. 3)
Plateau of Dervenochoria, 2.6 km SW of Skourta, seasonally flooded uncultivated field, clay, 535 m, 38°11'N, 23°31'E, 22.04.2018, Polymenakos 502 (ATH); loc. ibid., 01.06.2019, Polymenakos & Pantavos 835 (ATH).
New for nomos Viotias.

Fig. 3. *Isoetes histrix.*

SPERMATOPHYTA – ANGIOSPERMAE

Alismataceae

*Alisma lanceolatum* With. (Fig. 4)
Mt Pastra, 2.2 km WSW of Dafni, damp base of seasonally dry artificial depression, limestone, 415 m, 38°14'N, 23°32'E, 22.04.2018, Polymenakos 501 (ATH); loc. ibid., 01.06.2019, Polymenakos & Pantavos 834 (ATH).
New for Mt Pastra and nomos Viotias. Occurring in vast quantities in ditches and seasonal pools on the plateau of Dervenochoria.
**Alliaceae**

*Allium cyrilli* Ten.
Plateau of Dervenochoria, 2.5 km NE of village Stefani, cereal field, clay, 560 m, 38°11’N, 23°34’E, 19.05.2019, Polymenakos & Koutsogiannopoulos 815 (ATH).

Confirming an old report from eparchia Thivon (Halácsy 1904: 261) based on a collection by Spruner.

*Allium dentiferum* Webb & Berthel.
Plateau of Dervenochoria, 2 km SE of Pili, edge of cereal field, clay, 535 m, 38°12’N, 23°31’E, 02.07.2019, Polymenakos 877 (ATH).

New for nomos Viotias.

*Allium scorodoprasum* subsp. *rotundum* (L.) Stearn (syn. *Allium rotundum* L.)
Plateau of Dervenochoria, 2.7 km SE of Pili, in vineyards, clay, 530 m, 38°12’N, 23°31’E, 19.05.2019, Polymenakos & Koutsogiannopoulos 816 (ATH).

New for eparchia Thivon, reported from eparchia Levadias (Kokmotos & Georgiadis 2005).

*Allium vineale* L.
Plateau of Dervenochoria, 2 km SE of Pili, damp margins of cereal field, clay, 535 m, 38°12’N, 23°31’E, 12.06.2018, Polymenakos 617 (ATH).

New for eparchia Thivon, reported from eparchia Levadias (Mts Parnassos, Elikonas).

**Amaranthaceae**

*Amaranthus graecizans* L.
Plateau of Dervenochoria, 2.1 km SE of Pili, vineyards, clay, 530 m, 38°12’N, 23°31’E, 30.08.2019, Polymenakos 930 (ATH).

Reported from eparchia Thivon. Common on the plateau together with *A. retroflexus*.

*Amaranthus retroflexus* L.
Plateau of Dervenochoria, 2.1 km SE of Pili, vineyards, clay, 530 m, 38°12’N, 23°31’E, 30.08.2019, Polymenakos 929 (ATH).

Reported from eparchia Thivon.

**Apiaceae**

*Bifora testiculata* (L.) Spreng.
Plateau of Dervenochoria, 1 km SE of Pili, cereal fields, clay, 530 m, 38°12’N, 23°30’E, 16.04.2019, Polymenakos 750 (ATH); Mt Parnitha, “Mazareika”, E of Skourta, fallow fields, limestone, 440 m, 38°13’N, 23°37’E, 01.05.2019, Polymenakos & Pantavos 792 (ATH).

New for Mt Parnitha, there are numerous records from cereal fields in nomos Viotias.

*Bupleurum tenuissimum* L.
Plateau of Dervenochoria, 2.2 km NE of village Prasino, muddy spot close to dried-out seasonal pool, clay, 535 m, 38°11’N, 23°32’E, 10.11.2018, Polymenakos 658 (ATH).
New for nomos Viotias, rare on plateau. Only once reported from floristic region of Sterea Ellas (nomos Etolias-Akarnanias, left side of Aheloos river in Mesolongi, Stamatiadou 13908, ATH, C).

**Conium maculatum** L.
Mt Pastra, in village Panakton, ruderal places and road-sides, limestone, 575 m, 38°11’N, 23°29’E, 16.04.2016, Polymenakos 82 (ATHU).

New for Mt Pastra.

**Ridolfia segetum** (Guss.) Moris
Plateau of Dervenochoria, 1.8 km ESE of Pili, fallow fields, clay, 530 m, 38°12’N, 23°30’E, 15.06.2019, Polymenakos 862 (ATH).

New for eparchia Thivon. Not uncommon on the plateau and the surrounding areas of Viotia and west Attiki. Rarely collected due to its late flowering and mistaken for wild or cultivated forms of *Foeniculum vulgare* Mill.

**Scandix australis** L. subsp. *australis*
Mt Pastra, 3.5 km W of Pili, stony slope with few Quercus coccifera shrubs, limestone, 750 m, 38°12’N, 23°27’E, 26.04.2019, Polymenakos 773 (ATH).

New for Mt Pastra. Another subspecies, *S. australis* subsp. *grandiflora* (L.) Thell. has been collected from Mts Parnitha, Pateras, Pendeli and Pastra.

**Asteraceae**

**Anthemis arvensis** subsp. *incrassata* (Loisel.) Nyman
Plateau of Dervenochoria, 2.6 km SW of Skourta, seasonally flooded flat, clay, 535 m, 38°11’N, 23°31’E, 26.04.2019, Polymenakos 773 (ATH).

Common on plateau, in cereal and fallow fields, vineyards. Very few records from nomos Viotias have been identified to subspecies rank.

**Anthemis palaestina** (Kotschy) Boiss.
Plateau of Dervenochoria, 2.25 km S of Skourta, edge of cereal field, clay, 535 m, 38°11’N, 23°33’E, 14.10.2019, Polymenakos 945 (ATH, det. K. Goula); loc. *ibid.*, 25.01.2020, fruits collected, Polymenakos (herb. Kit).

New for nomos Viotias. *Anthemis palaestina* was plentiful in the single locality on the plateau and collected in fruit together with the related *A. altissima* L. Fruiting heads of *A. palaestina* have been collected from nomos Arkadias (village of Vlacherna in foothills of Menalo, roadside, 870 m, 37°43’N, 22°14’E, 29.07.2018), this constitutes the first record for the Peloponnese. The taxon is undercollected as it is not easily recognized in flowering state but unmistakeable in fruit.

**Carduus acicularis** Bertol.
Plateau of Dervenochoria, 2.5 km SW of Skourta, damp fallow field, clay, 535 m, 38°12’N, 23°31’E, 30.04.2018, Polymenakos & Koutsogiannopoulos 531 (ATH); Mt Kitheronas, 2 km NE of Platees, damp uncultivated field, clay, 335 m, 38°13’N, 23°17’E, 30.04.2018, Polymenakos & Koutsogiannopoulos 521 (ATH).

New for Mt Kitheronas and eparchia Thivon, apparently undercollected in Viotia due to its resemblance to the widespread *Carduus pycnocephalus*.

**Carpentarium lanatus** subsp. *baeticus* (Boiss. & Reuter) Nyman
Plateau of Dervenochoria, 1.3 km ESE of Pili, road-sides and field margins, clay, 530 m, 38°12’N, 23°30’E, 02.07.2019, Polymenakos 870 (ATH).

Recorded from eparchia Thivon.

**Centaurea cyanus** L.
Plateau of Dervenochoria, 2.2 km NE of Prasino, seasonally flooded fallow field, clay, 535 m, 38°11’N, 23°32’E, 01.06.19, Polymenakos & Pantavos 832 (ATH).

New for eparchia Thivon.

**Cirsium arvense** (L.) Scop.
Mt Kitheronas, 2.8 km W of Erythres, on road to Platees, wet ground at the edge of cultivated field, clay, 340 m, 38°13’N, 23°17’E, 05.07.2017, Polymenakos 318 (ATHU).

New for Mt Kitheronas.

**Cirsium italicum** DC.
Plateau of Dervenochoria, SW of Skourta, vineyards and fallow fields, clay, 530 m, 38°12’N, 23°32’E, 02.07.2019, Polymenakos 874 (ATH).

New for eparchia Thivon.

**Crepis pulchra** L.
2 km NE of Platees, in damp uncultivated field, clay, 335 m, 38°13’N, 23°17’E, 30.04.2018, Polymenakos & Koutsogiannopoulos 519 (ATH).

New for nomos Viotias.

**Echinops microcephalus** Sm.
Plateau of Dervenochoria, 2.2 km NE of Stefani, road-sides and field margins, clay, 555 m, 38°10’N, 23°33’E, 02.07.2019, Polymenakos 873 (ATH).

Also on Mt Pastra in eparchia Thivon.
Filago gallica L.
Plateau of Dervenochoria, 2.5 km SW of Skourta, seasonally flooded abandoned field, clay, 535 m, 38°11’N, 23°31’E, 30.04.2018, Polymenakos 533 (ATH).
Recorded from eparchia Thivon.

Filago germanica (L.) Huds.
Plateau of Dervenochoria, 2.5 km SW of Skourta, seasonally flooded abandoned field among cultivated fields, clay, 535 m, 38°11’N, 23°31’E, 30.04.2018, Polymenakos 532 (ATH).
New for eparchia Thivon. Throughout the plateau, usually found together with *F. gallica*, the latter always more abundant.

Filago pygmaea L.
Mt Pastra, 0.8 km NW of village Panakto, roadsides and soil pockets on stony slope with *Sarcopoterium spinosum*, limestone, 590 m, 38°11’N, 23°29’E, 03.04.2018, Polymenakos 459 (ATHU).
New for Mt Pastra and nomos Viotias.

Inula viscosa (L.) Aiton (syn. Dittrichia viscosa subsp. angustifolia (Bég.) Greuter)
Mt Pastra, in the village of Lefka, 3.7 km E of Oenoe, roadsides and abandoned fields, limestone, 330 m, 38°10’N, 23°27’E, 10.09.2017, Polymenakos 367 (ATHU).
New for Mt Pastra.

Boraginaceae

Alkanna graeca subsp. baetica (A.DC.) Nyman
Mt Pastra, 3 km west of Pili, edge of *Quercus coccifera* scrub, limestone, 675 m, 38°12’N, 23°27’E, 16.04.2019, Polymenakos 749 (ATH).
New for Mt Pastra.

Anchusa undulata subsp. hybrida (Ten.) Bég.
Plateau of Dervenochoria, 2.5 km SE of Skourta, abandoned vineyard, clay, 535 m, 38°11’N, 23°32’E, 24.03.2019, Polymenakos 704 (ATH).
Recorded from eparchia Thivon.

Buglossoides arvensis (L.) I.M. Johnst. subsp. arvensis
Plateau of Dervenochoria, 3.5 km SE of Stefani, cereal fields, clay, 555 m, 38°11’N, 23°34’E, 24.03.2019, Polymenakos 708 (ATH).
Recorded from eparchia Thivon.

Heliotropium supinum L.
Plateau of Dervenochoria, SW of Skourta, seasonally flooded vineyards and fallow fields, clay, 530 m, 38°12’N, 23°32’E, 29.07.2019, Polymenakos 904 (ATH).
Recorded from eparchia Thivon.

Melanortocarya obtusifolia (Willd.) Selvi & al.
Plateau of Dervenochoria, 2.35 km NE of Stefani, fallow fields, clay, 560 m, 38°12’N, 23°31’E, 02.03.2019, Polymenakos 680 (ATH).
Recorded from eparchia Thivon.

Myosotis cadmea Boiss.
Plateau of Dervenochoria, 2.8 km SE of Pili, seasonally flooded fallow field, clay, 535 m, 38°12’N, 23°31’E, 24.03.2019, Polymenakos 499 (ATH); 1.9 km SE of Pili, damp fallow field, clay, 530 m, 38°12’N, 23°30’E, 16.04.2019, Polymenakos 756 (ATH).
Recorded from eparchia Thivon. Common on plateau, in wet fallow fields and vineyards.

Myosotis congesta Albert & A. Reyn.
Plateau of Dervenochoria, 2.6 km SW of Skourta, in seasonally flooded uncultivated field, clay, 535 m, 38°11’N, 23°31’E, 22.04.2018, Polymenakos 499 (ATH); 1.9 km SE of Pili, in seasonally flooded fallow field, clay, 530 m, 38°12’N, 23°30’E, 16.04.2019, Polymenakos 751 (ATH).
New for eparchia Thivon, reported from eparchia Levadias. Common in the damp meadows of plateau. The corolla limb is blue in young flowers and remains blue. In the rather similar *Myosotis discolor* Pers. it is yellow, changing to blue at maturity, hence the species epithet. *Myosotis ramosissima* Rochel has larger, pale or bright blue flowers but has not been observed on the plateau.

Myosotis sicula Guss. (Fig. 5)
Plateau of Dervenochoria, 2.2 km NE of village Prasino, muddy ground around seasonal pool, clay, 535 m, 38°11’N, 23°32’E, 22.04.2018, Polymenakos 494 (ATH); 0.65 km SW of Skourta, muddy ground around seasonal pool, clay, 535 m, 38°12’N, 23°32’E, 19.05.2018, Polymenakos 583 (ATH).
New for nomos Viotias.

Myosotis stricta Roem. & Schult.
Plateau of Dervenochoria, 2.6 km SW of Skourta, seasonally flooded cereal field, clay, 535 m, 38°11’N, 23°32’E, 24.03.2019, Polymenakos 708 (ATH); 2.65 km SE of Pili, damp fallow field, clay, 530 m, 38°12’N, 23°31’E, 16.04.2019, Polymenakos 755 (ATH).
New for nomos Viotias, the nearest reports are from the high mountains of Sterea Ellas, viz., Vardousia, Iti, Timfristos, Oxia, etc.
Symphytum bulbosum K.F. Schimp.
Plateau of Dervenochoria, 2.6 km SE of Pili, damp fallow field, clay, 555 m, 38°12′N, 23°31′E, 16.04.2019, Polymenakos 757 (ATH).
   New for eparchia Thivon.

Brassicaceae

Alyssum simplex Rudolphi
Plateau of Dervenochoria, 3.5 km SE of Skourta, damp fallow field, clay, 535 m, 38°11′N, 23°34′E, 24.03.2019, Polymenakos 713 (ATH).
   Reported from eparchia Thivon.
Alyssum turkestanicum Regel & Schmalh.
Mt Parnitha, “Tsigrant”, 3 km E of Skourta, edge of Pinus woodland, schist, 500 m, 38°12′N, 23°35′E, 24.03.2019, Polymenakos 730 (ATH).
   New for Mt Parnitha.
Erophila praecox (Steven) DC. (syn. Draba praecox Steven)
Plateau of Dervenochoria, 3.5 km SE of Skourta, damp fallow field, clay, 555 m, 38°11′N, 23°34′E, 24.03.2019, Polymenakos 714 (ATH).
   Recorded from eparchia Thivon.
Erophila verna (L.) Chevall. (syn. Draba verna L.)
Plateau of Dervenochoria, 1.85 km N of Stefani, cultivated and fallow fields, clay, 540 m, 38°11′N, 23°33′E, 02.03.2019, Polymenakos 672 (ATH).
   Recorded from eparchia Thivon.
Erysimum boryanum Boiss. & Spruner
Mt Pastra, 3.2 km W of Pili, stony slope with Sarco-poterium spinosum, schist, 645 m, 38°12′N, 23°27′E, 26.04.2019, Polymenakos 768 (ATH).
   New for Mt Pastra.

Neslia apiculata Fisch. & al.
Plateau of Dervenochoria, 3.5 km SE of Skourta, cereal fields, clay, 535 m, 38°11′N, 23°34′E, 24.03.2019, Polymenakos 709 (ATH).
   Recorded from eparchia Thivon.
Noccaea bulbosa (Spruner) Al-Shehbaz (syn. Raparia bulbosa (Spruner) F.K. Mey.)
Plateau of Dervenochoria, 2.5 km south of Skourta, stony uncultivated flats, clay, 535 m, 38°11′N, 23°33′E, 24.03.2019, Polymenakos 707 (ATH).
   Recorded from eparchia Thivon.

Campanulaceae

Solenopsis laurentia (L.) C. Presl (Fig. 6)
Plateau of Dervenochoria, 2.6 km SW of Skourta, seasonally flooded uncultivated field, clay, 535 m, 38°11′N, 23°31′E, 30.04.2018, Polymenakos & Koutsogiannopoulos 523 (ATH).
New for nomos Viotias and Sterea Ellas. Rare on the plateau, only found in a single locality, the plants occupying a small area of 1m². The biotope is uncultivated flat land surrounded by cereal fields. The ground remains flooded in winter and provides a number of interesting taxa such as *Isoetes histrix*, *Ranunculus lateriflorus*, *R. ophioglossifolius*, *Juncus capitatus*, *J. pygmaeus*, *Centaurium maritimum*, *Lythrum thymifolia* and *Trifolium tenuifolium*.

*Caryophyllaceae*

*Agrostemma githago* L. subsp. *githago*
Plateau of Dervenochoria, 2.3 km SW of Skourta, cereal field, clay, 535 m, 38°11’N, 23°31’E, 22.04.2018, *Polymenakos* 492 (ATH).

New for nomos Viotias. Common in the cereal fields of the plateau.

*Cerastium dubium* (Bastard) Guépin
Plateau of Dervenochoria, 2.55 km SW of Skourta, seasonally flooded vineyard, clay, 535 m, 38°11’N, 23°31’E, 05.04.2018, *Polymenakos* 467 (ATH); loc. *ibid.*, 02.03.2019, *Polymenakos* 673 (ATH).

New for eparchia Thivon collected only once from nomos Viotias (eparchia Levadias, Elikonas, *Willing* 192892, B).

*Corrigiola litoralis* L. subsp. *litoralis*
Plateau of Dervenochoria, 2.2 km SW of Skourta, seasonally flooded uncultivated field, clay, 535 m, 38°11’N, 23°31’E, 10.11.2018, *Polymenakos* 657 (ATH).

Reported from eparchia Thivon.

*Scleranthus verticillatus* Tausch
Plateau of Dervenochoria, 2.6 km SW of Skourta, seasonally flooded cereal field, clay, 535 m, 38°11’N, 23°32’E, 24.03.2019, *Polymenakos* 761 (ATH).

Reported from eparchia Thivon.

*Spergula arvensis* L.

New for Mt Pastra.

Common on plateau, recorded from eparchia Thivon.

*Spergularia rubra* (L.) J. & C. Presl

New for Mt Pastra.

*Chenopodiaceae*

*Atriplex prostrata* DC.
Plateau of Dervenochoria, 2.2 km NE of village Prasino, muddy patches near dry seasonal pool, clay, 535 m, 38°11’N, 23°32’E, 10.11.2018, *Polymenakos* 660 (ATH).

New for eparchia Thivon.

*Chenopodium opulifolium* W.D.J. Koch & Ziz

New for Mt Pastra.

*Helianthemum apenninum* (L.) Mill.
Mt Parnitha, E of Skourta, along road to “Tsigourati”, limestone, 550 m, 38°12’N, 23°35’E, 01.05.2019, *Polymenakos* & *Pantavos* 791 (ATH).

New for Mt Parnitha and nomos Viotias; together with Mt Pendeli, the northernmost localities in Greece.

*Helianthemum hymettium* Boiss. & Heldr.
Mt Pastra, between villages Pili and Panakto, stony slopes, openings in Quercus coccifera scrub, limestone, 550 m, 38°12’N, 23°29’E, 01.05.2019, *Polymenakos* & *Pantavos* 789 (ATH).

New for Mt Pastra.

*Colchicaceae*

*Colchicum lingulatum* Boiss. & Spruner subsp. *lingulatum* (Fig. 7)
Mt Pastra, E of village Panakton, dry flats with *Sarcopoterium spinosum*, schist, 585 m, 38°11’N, 23°30’E, 22.04.2018, *Polymenakos* 491 (ATH).

New for Mt Pastra.

*Cyperaceae*

*Bolboschoenus glaucus* (Lam.) S.G. Sm.
Plateau of Dervenochoria, 1.9 km SE of Pili, ditches, clay, 535 m, 38°12’N, 23°31’E, 03.06.2018, *Polymena-
kios 604 (ATH); 1.55 km SW of Skourta, swamp, clay,
530 m, 38°12′N, 23°32′E, 01.06.2019, Polymenakos obs.

New for nomos Viotias. Present in most ditches
on the plateau, forming an extensive swamp SW of
Skourta together with *Typha domingensis*.

**Eleocharis palustris** (L.) Roem. & Schult. subsp. palustris
Plateau of Dervenochoria, 2.65 km SW of Skourta,
ditches, clay, 535 m, 38°12′N, 23°31′E, 01.05.2019,
Polymenakos & Pantavos 788 (ATH).

New for eparchia Thivon.

**Schoenoplectus tabernaemontani** (C.C. Gmel.) Palla
Plateau of Dervenochoria, 1.55 km SW of Skourta,
swamp, clay, 530 m, 38°12′N, 23°32′E, 01.06.2019,
Polymenakos obs.

New for nomos Viotias, rarely recorded from
Sterea Ellas. A few plants were within the *Bolboschoenus*
swamp but out of reach, thus not collected. Dry inflorescences with mature fruits were harvested
when the area dried out.

**Dipsacaceae**

**Cephalaria transsylvanica** (L.) Roem. & Schult.
Plateau of Dervenochoria, 0.9 km SE of Pili, field mar-
gins and roadsides, clay, 530 m, 38°12′N, 23°30′E, 30.08.2019, Polymenakos 928 (ATH).

New for eparchia Thivon.

**Dipsacus fullonum** L.
Plateau of Dervenochoria, 2.2 km ESE of Pili, ditches,
clay, 530 m, 38°12′N, 23°31′E, 02.07.2019, Polymenakos 872 (ATH).

New for eparchia Thivon.

**Trifolium lappaceum** L.
Plateau of Dervenochoria, 2.6 km SW of Skourta,
seasonally flooded uncultivated field, clay, 535 m, 38°11′N, 23°32′E, 12.05.2018, Polymenakos 559 (ATH);
loc. ibid., 03.06.2018, Polymenakos 603 (ATH).

New for eparchia Thivon.

**Trifolium tenuifolium** Ten.
Plateau of Dervenochoria, 2.6 km SW of Skourta,
seasonally flooded uncultivated field, clay, 535 m, 38°11′N, 23°31′E, 12.05.2018, Polymenakos 559 (ATH);
loc. ibid., 03.06.2018, Polymenakos 603 (ATH).

New for eparchia Thivon.

**Vicia pannonica** subsp. *striata* (M. Bieb.) Nyman
Plateau of Dervenochoria, 2.4 km NE of Stefani, cereal
field, clay, 545 m, 38°11′N, 23°34′E, 09.04.2019, Polymenakos & Pantavos 745 (ATH).

New for eparchia Thivon.

**Fabaceae**

**Lathyrus hirsutus** L.
Plateau of Dervenochoria, 2.2 km NE of Prasino, sea-
sonally flooded vineyard, clay, 535 m, 38°11′N, 23°32′E, 01.06.2019, Polymenakos & Pantavos 831 (ATH).

Recorded from eparchia Thivon.

**Lathyrus pratensis** L.
Mt. Parnitha, at “Mazareika”, wet meadow, clay, 455 m,
38°13′N, 23°30′E, 02.07.2019, Polymenakos 868 (ATH).

Recorded for Mt. Parnitha.

**Lotus angustissimus** L.
Plateau of Dervenochoria, 2.6 km SE of Pili, sea-
sonally flooded flats, clay, 535 m, 38°12′N, 23°31′E,
02.07.2019, Polymenakos & Pantavos 875 (ATH).

New for eparchia Thivon.

**Lotus conimbricensis** Brot.
Mt. Pastra, E of village Panakton, damp grassy flats
with *Pyrus spinosa*, schist, 585 m, 38°11′N, 23°30′E, 22.04.2018, Polymenakos 493 (ATH).

New for Mt. Pastra.

**Trifolium leucanthum** M. Bieb.
Plateau of Dervenochoria, 1.9 km ESE of Pili, wet
patches at edge of cereal fields, clay, 530 m, 38°12′N, 23°30′E,
19.05.2019, Polymenakos & Koutsogiannopoulos 819 (ATH).

New for Mt. Pastra.

**Trifolium tenuifolium** Ten.
Plateau of Dervenochoria, 2.6 km SW of Skourta,
seasonally flooded uncultivated field, clay, 535 m, 38°11′N, 23°32′E, 12.05.2018, Polymenakos 559 (ATH);
loc. ibid., 03.06.2018, Polymenakos 603 (ATH).

New for eparchia Thivon.

**Vicia pannonica** subsp. *striata* (M. Bieb.) Nyman
Plateau of Dervenochoria, 2.4 km NE of Stefani, cereal
field, clay, 545 m, 38°11′N, 23°34′E, 09.04.2019, Polymenakos & Pantavos 745 (ATH).

Recorded from eparchia Thivon.

Fig. 7. *Colchicum lingulatum* subsp. *lingulatum*. 
Gentianaceae

Centaurium maritimum (L.) Fritsch
Plateau of Dervenochoria, 2.2 km SW of Skourta, seasonally flooded uncultivated field, clay, 535 m, 38°11’N, 23°31’E, 30.04.2018, Polymenakos & Koutsogiannopoulos 527 (ATH).
New for nomos Viotias.

Centaurium pulchellum (Sw.) Druce
Plateau of Dervenochoria, 2.2 km SW of Skourta, seasonally flooded uncultivated field, clay, 535 m, 38°11’N, 23°31’E, 03.06.2018, Polymenakos 602 (ATH).
Recorded from eparchia Thivon.

Hyacinthaceae

Ornithogalum divergens Boreau
Plateau of Dervenochoria, 2.35 km NE of Stefani, in damp fallow field, clay, 555 m, 38°11’N, 23°34’E, 16.04.2019, Polymenakos 760 (ATH).
New for eparchia Thivon. Found only in one locality mixed with O. refractum which flowers earlier.

Ornithogalum fimbriatum subsp. gracilipes (Zahar.) Landström
Mt Pastra, 3.5 km west of Pili, stony slope with sparse Quercus coccifera scrub, limestone, 750 m, 38°12’N, 23°27’E, 26.04.2019, Polymenakos 775 (ATH).
New for Mt Pastra.

Ornithogalum nutans L.
Plateau of Dervenochoria, 2.2 km SE of Pili, cereal fields, clay, 545 m, 38°12’N, 23°31’E, 24.03.2019, Polymenakos 703 (ATH).
Recorded from eparchia Thivon.

Ornithogalum refractum Schltdl.
Plateau of Dervenochoria, 2.1 km NE of Stefani, fallow fields, clay, 545 m, 38°11’N, 23°33’E, 24.03.2019, Polymenakos 724 (ATH); Mt Parnitha, “Tsigourati”, cereal fields, clay, 545 m, 38°11’N, 23°33’E, 02.02.2019, Polymenakos 667 (ATH).
New for Mt Parnitha and eparchia Thivon. These are the easternmost collections of Crocus chrysanthus in Sterea Ellas, the nearest records being from Mt Parnassos.

Ornithogalum sibthorpii Greuter
Plateau of Dervenochoria, 2.5 km SW of Skourta, roadsides and field margins, clay, 535 m, 38°11’N, 23°32’E, 02.03.2019, Polymenakos 674 (ATH).
New for Mt Pastra.

Iridaceae

Crocus chrysanthus (Herb.) Herb. (Fig. 8)
Mt Parnitha, 3.8 km SE of Skourta, phrygana at edge of Pinus forest, clay, 565 m, 38°11’N, 23°34’E, 23.12.2018, Polymenakos & Koutsogiannopoulos 664 (ATH); 3.7 km SE of Skourta, damp uncultivated field, clay, 565 m, 38°11’N, 23°34’E, 23.12.2018, Polymenakos & Koutsogiannopoulos 665 (ATH); 2.5 km SE of Skourta, uncultivated flats with few Pyrus spinosa shrubs, limestone, 535 m, 38°11’N, 23°33’E, 02.02.2019, Polymenakos 667 (ATH).
New for Mt Parnitha, recorded from eparchia Thivon. These are the easternmost collections of Crocus chrysanthus in Sterea Ellas, the nearest records being from Mt Parnassos.

Romulea bulbocodium (L.) Sebast. & Mauri
Mt Pastra, 0.14 km SE of village Panakton, abandoned field with Sarcopoterium spinosum, schist, 590 m, 38°11’N, 23°30’E, 23.02.2016, Polymenakos 53 (ATHU); plateau of Dervenochoria, 2.5 km SW of Skourta, roadsides and field margins, clay, 535 m, 38°11’N, 23°32’E, 02.03.2019, Polymenakos 674 (ATH).
New for Mt Pastra.

Fig. 8. Crocus chrysanthus.
Romulea columnae Sebast. & Mauri subsp. columnae
Mt Pastra, 1.1 km E of village Panakton, on dirt road, limestone, 555 m, 38°11’N, 23°30’E, 23.02.2016, Polymenakos 54 (ATH).
    New for Mt Pastra.

Juncaceae

Juncus capitatus Weigel (Fig. 9)
Plateau of Dervenochoria, 2.58 km SW of Skourta, seasonally flooded uncultivated field, clay, 535 m, 38°11’N, 23°31’E, 22.04.2018, Polymenakos 497 (ATH); Mt Pastra, E of village Panakton, uncultivated flats with Sarcopoterium spinosum, schist, 585 m, 38°11’N, 23°29’E, 01.05.2019, Polymenakos 790 (ATH).
    New for Mt Pastra and nomos Viotias.

Juncus minutulus V. Krecz. & Gontsch.
Plateau of Dervenochoria, 2.2 km NE of village Prasino, muddy ground by seasonal pool, clay, 535 m, 38°11’N, 23°32’E, 30.04.2018, Polymenakos & Koutsogiannopoulos 534 (ATH).
    New for nomos Viotias. Found together with Juncus pygmaeus and J. tenageia.

Juncus pygmaeus Rich (Fig. 10)
Plateau of Dervenochoria, 2.2 km NE of village Prasino, muddy ground by seasonal pool, clay, 535 m, 38°11’N, 23°32’E, 22.04.2018, Polymenakos 498 (ATH); plateau of Dervenochoria, 1.4 km SW of Skourta, edge of seasonal pool in cultivated fields, clay, 535 m, 38°12’N, 23°32’E, 30.04.2018, Polymenakos & Koutsogiannopoulos 525 (ATH).
    New for nomos Viotias and Sterea Ellas. One of the four “small” members of the genus Juncus found on the plateau of Dervenochoria. Juncus pygmaeus is the only one occurring in more than one locality. It is present throughout the plateau, becoming locally gregarious in dried-out beds of seasonal pools. The more common and widespread J. bufonius s.str. was surprisingly, not seen on the plateau.

Juncus sphaerocarpus Nees
Mt Parnitha, “Mazareika” E of Skourta, damp places at roadside, clay, 455 m, 38°13’N, 23°37’E, 01.05.2019, Polymenakos 797 (ATH); Mt Kitheronas, 2 km ENE of Platees, seasonally flooded cereal field, clay, 345 m, 38°13’N, 23°17’E, 19.05.2019, Polymenakos & Koutsogiannopoulos 824 (ATH).
    New for Mt Kitheronas, Mt Parnitha and nomos Viotias.
**Juncus tenageia** L. f.
Plateau of Dervenochoria, 2.2 km NE of village Prasino, muddy ground by seasonal pool, clay, 535 m, 38°11’N, 23°32’E, 30.04.2018, Polymenakos & Koutsoyiannopoulos 526 (ATH); loc. ibid., 19.05.2018, Polymenakos 577 (ATH).

New for nomos Viotias and Sterea Ellas. Very rare on the plateau, found together with *Juncus minutulus* and *J. pygmaeus*.

**Lamiaceae**

*Phlomis herba-venti* L. subsp. *pungens* (Willd.) Maire ex DeFillips
Mt Pastra, 3.3 km W of village Dafni, along main road to Erythres, roadsides and margins of cotton fields, limestone, 400 m, 38°14’N, 23°23’E, 12.06.2016, Polymenakos 97 (ATHU).

New for Mt Pastra.

**Liliaceae**

*Gagea amblyopetala* Boiss. & Heldr.
Plateau of Dervenochoria, 2.1 km NE of Stefani, fallow fields, clay, 545 m, 38°11’N, 23°33’E, 24.03.2019, Polymenakos 725 (ATH).

New for eparchia Thivon.

*Gagea villosa* (M. Bieb.) Sweet
Plateau of Dervenochoria, 1.9 km SE of Skourta, cereal fields, clay, 535 m, 38°11’N, 23°34’E, 02.03.2019, Polymenakos 677 (ATH).

New for eparchia Thivon.

**Tulipa hageri** Heldr. (Fig. 11)
Plateau of Dervenochoria, 0.8 km E of Pili, in cereal and fallow fields, clay, 535 m, 38°12’N, 23°30’E, 03.04.2018, Polymenakos 462 (ATH); 1.6 km SE of Pili, damp fallow fields, clay, 530 m, 38°12’N, 23°30’E, 16.04.2019, Polymenakos 758 (ATH).

New for eparchia Thivon. First described by Heldreich based on material collected “in oropedis Megalo Chorapi montis Parnethis Atticae, infra Dekeleiam”, by himself and co-collector F. Hager, after whom the tulip was named. The species is still common, occurring in large numbers in several fields on the plateau. Most of the fields remain flooded till April and the showy scarlet flowers appear to emerge aquatically. They are absent from fields where deep tilling is the norm. The dissimilar *Tulipa undulatifolia* Boiss. was not observed on the plateau although it had been collected several times in abandoned and cultivated fields on the plain of Thiva; its numbers however, are declining.

**Lythraceae**

*Lythrum hyssopifolia* L.
Plateau of Dervenochoria, 2.6 km SW of village Skourta, seasonally flooded flat, clay, 535 m, 38°11’N, 23°31’E, 22.04.2018, Polymenakos 500 (ATH).

Reported from eparchia Thivon.

*Lythrum thymifolia* L.
Plateau of Dervenochoria, 2.6 km SW of village Skourta, seasonally flooded flat, clay, 535 m, 38°11’N, 23°31’E, 30.04.2018, Polymenakos 530 (ATH); 2.1 km SE of Pili, seasonally flooded flat, clay, 530 m, 38°12’N, 23°31’E, 19.05.2018, Polymenakos 578 (ATH).

Reported from eparchia Thivon. Locally gregarious at several places on the plateau.

**Malvaceae**

*Abutilon theophrasti* Medik.
Plateau of Dervenochoria, SW of village Skourta, seasonally flooded vineyards, clay, 530 m, 38°12’N, 23°32’E, 30.08.2019, Polymenakos 931 (ATH).

New for eparchia Thivon.

**Onagraceae**

*Epilobium lamyi* F.W. Schultz
Plateau of Dervenochoria, 2.5 km SW of village Skourta,

![Fig. 11. Tulipa hageri.](image)
wet roadsides and edge of cereal fields, clay, 535 m, 38°12'N, 23°31'E, 03.06.2018, *Polymenakos* 606 (ATH).

New for nomos Viotias.

**Papaveraceae**

*Papaver lecoqii* Lamotte
Mt Pastra, 3.5 km W of Pili, stony slope with sparse *Quercus coccifera* scrub, limestone, 750 m, 38°12'N, 23°27'E, 26.04.2019, *Polymenakos* 774 (ATH).

New for Mt Pastra.

**Plantaginaceae**

*Plantago lanceolata* L.
Plateau of Dervenochoria, 2.2 km NE of village Prasino, muddy ground at dried-out pool, clay, 535 m, 38°11'N, 23°32'E, 12.06.2018, *Polymenakos* 615 (ATH).

Reported from eparchia Thivon.

**Poaceae**

*Agrostis stolonifera* L. subsp. *stolonifera*
Plateau of Dervenochoria, 2.6 km SW of Skourta, damp fallow field, clay, 535 m, 38°11'N, 23°32'E, 12.06.2018, *Polymenakos* 616 (ATH).

New for nomos Viotias.

*Alopecurus myosuroides* Huds.
Plateau of Dervenochoria, 2.3 km SE of Skourta, edge of seasonal pool, clay, 535 m, 38°11'N, 23°32'E, 24.03.2019, *Polymenakos* 715 (ATH).

Reported from eparchia Thivon.

*Alopecurus rendlei* Eig
Plateau of Dervenochoria, 2.3 km SE of Skourta, damp fields, clay, 535 m, 38°11'N, 23°32'E, 24.03.2019, *Polymenakos* 727 (ATH).

New for Mt Pastra.

*Antinoria insularis* Parl.
Plateau of Dervenochoria, 1.3 km SW of Skourta, muddy places in dried-out bed of seasonal pool, clay, 530 m, 38°12'N, 23°32'E, 30.08.2019, *Polymenakos* 932 (ATH).

New for nomos Viotias, Sterea Ellas and mainland Greece. Previously reported only from the islands (East Aegean, Kiklades and Cretan). The plants were collected in fruiting state.

*Briza minor* L.
Plateau of Dervenochoria, 2.55 km SW of Skourta, seasonally flooded abandoned field, clay, 535 m, 38°11'N, 23°31'E, 30.04.2018, *Polymenakos & Koutsoyiannopoulos* 528 (ATH).

New for nomos Viotias.

*Bromus racemosus* L. subsp. *racemosus*
Plateau of Dervenochoria, 2.1 km NE of Prasino, muddy places in cereal field, near seasonal pool, clay, 535 m, 38°11'N, 23°32'E, 19.05.2018, *Polymenakos* 584 (ATH).

New for eparchia Thivon.

*Crypsis schoenoides* (L.) Lam.
Plateau of Dervenochoria, 2.6 km SE of Pili, stony slope with sparse *Quercus coccifera* scrub, limestone, 605 m, 38°12'N, 23°28'E, 22.04.2018, *Polymenakos* 490 (ATH).

New for Mt Pastra.

*Echinaria capitata* (L.) Desf.
Mt Pastra, W of Pili, near monastery of Zoodochos Pigi, stony slope with sparse *Quercus coccifera* scrub, limestone, 605 m, 38°12'N, 23°28'E, 22.04.2018, *Polymenakos* 490 (ATH).

New for Mt Pastra.

*Elytrigia repens* (L.) Nevski subsp. *repens*
Plateau of Dervenochoria, 2.2 km NE of Prasino, roadsides and wet fallow fields, clay, 530 m, 38°11'N, 23°32'E, 01.06.2019, *Polymenakos & Pantavos* 830 (ATH).

Recorded for eparchia Thivon.

*Gaudinia fragilis* (L.) P. Beauv.
Plateau of Dervenochoria, 2.6 km SW of Skourta, in seasonally flooded flat, clay, 535 m, 38°12'N, 23°31'E, 19.05.2018, *Polymenakos* 580 (ATH).

Recorded for eparchia Thivon.

*Hordeum geniculatum* All.
Plateau of Dervenochoria, SW of Skourta, seasonally flooded meadow, clay, 530 m, 38°12'N, 23°32'E, 29.07.2019, *Polymenakos* 902 (ATH).

New for eparchia Thivon.

*Lolium temulentum* L.
Plateau of Dervenochoria, 2.5 km SW of Skourta, in cereal fields and damp grassland with *Alopecurus rendlei*, clay, 535 m, 38°11'N, 23°31'E, 12.05.2018, *Polymenakos* 557 (ATH).

Recorded for eparchia Thivon.
Molineriella minuta (L.) Rouy
Plateau of Dervenochoria, 2.55 km SW of Skourta, damp places at edge of seasonal pool, clay, 535 m, 38°11′N, 23°32′E, 05.04.2018, Polymenakos 470 (ATH).

New for nomos Viotias.

Paniceum capillare L. subsp. capillare
Plateau of Dervenochoria, 2.5 km SW of Skourta, edge of cereal fields, clay, 535 m, 38°11′N, 23°31′E, 10.11.2018, Polymenakos 659 (ATH).

New for nomos Viotias and Sterea Ellas. Xeno-phyte of N American origin, common in harvested cereal fields of the plateau.

Phalaris coerulescens Desf.
Plateau of Dervenochoria, 2.2 km NE of Prasino, seasonally flooded flats, clay, 530 m, 38°11′N, 23°32′E, 19.05.2019, Polymenakos & Koutsogiannopoulos 820 (ATH).

New for nomos Viotias. Common on plateau.

Phleum phleoides (L.) H. Karst.
Plateau of Dervenochoria, 2.3 km NE of Stefani, fallow fields, clay, 555 m, 38°11′N, 23°34′E, 26.04.2019, Polymenakos 787 (ATH).

New for eparchia Thivon.

Poa infirma Kunth
Plateau of Dervenochoria, 2.6 km SW of Skourta, seasonally flooded vineyard, clay, 535 m, 38°11′N, 23°32′E, 24.03.2019, Polymenakos 719 (ATH).

Recorded for eparchia Thivon.

Sclerochloa dura (L.) P. Beauv.
Mt Parnitha, “Mazareika”, on dirt road passing through fields, clay, 460 m, 38°13′N, 23°37′E, 01.05.2019, Polymenakos & Pantavos 798 (ATH).

New for Mt Parnitha.

Taeniatherum caput-medusae subsp. crinitum (Schreb.) Medemis
Plateau of Dervenochoria, 2.6 km SW of Skourta, seasonally flooded flat, clay, 535 m, 38°12′N, 23°31′E, 12.05.2018, Polymenakos 555 (ATH).

Recorded for eparchia Thivon.

Vulpia ciliata Dumort. subsp. ciliata
Plateau of Dervenochoria, 2.3 km NE of Stefani, abandoned vineyard, clay, 560 m, 38°11′N, 23°34′E, 19.05.2019, Polymenakos 817 (ATH).

Recorded for eparchia Thivon.
23°31’E, 12.05.2018, Polimenakos 560 (ATH); loc. ibid., 26.04.2019, Polimenakos 784 (ATH); 1.4 km SE of Pili, around seasonal pool, clay, 530 m, 38°12’N, 23°30’E, 16.04.2019, Polimenakos 754 (ATH).

New for nomos Viotias. This fairly rare taxon was collected at the low altitudes of 530–535 m, together with Myosurus heldreichii quod vide. According to Strid (Flora of Greece website, 2018) this species is only known between 1200 and 2000 m in Greece and M. heldreichii is reported as occurring below 400 m. However, Kalpoutzakis & al. (2019) has also reported M. minimus at a low altitude of c. 220 m in East Central (Mikrothives).

**Myosurus heldreichii** Heldr. ex H. Lév. (M. sessilis auct.)

Plateau of Dervenochoria, 2.1 km SE of Pili, seasonally flooded uncultivated flats, clay, 535 m, 38°12’N, 23°31’E, 12.05.2018, Polimenakos 561 (ATH).

New for nomos Viotias and Sterea Ellas. This is apparently the first documentation of both *Myosurus heldreichii* and *M. minimus* growing together in the same locality; no hybrids were observed. *Myosurus minimus* covers the whole seasonally flooded area whereas *M. heldreichii* is restricted to only a few places. The habitat is uncultivated land but an increase in land use may threaten present populations.

**Ranunculus arvensis** L.

Plateau of Dervenochoria, 2.3 km NE of Stefani, cereal fields, clay, 560 m, 38°10’N, 23°34’E, 02.03.2019, Polimenakos 678 (ATH).

Recorded for eparchia Thivon.

**Ranunculus gracilis** E.D. Clarke

Plateau of Dervenochoria, 2.5 km S of Skourta, damp uncultivated ground near cereal fields, clay, 540 m, 38°11’N, 23°33’E, 24.03.2019, Polimenakos 706 (ATH).

Recorded for eparchia Thivon.

**Ranunculus lateriflorus** DC.

Plateau of Dervenochoria, 2.2 km NE of village Praisino, muddy ground at seasonal pool, clay, 535 m, 38°11’N, 23°31’E, 30.04.2018, Polimenakos & Koutsogiannopoulos 524 (ATH).

New for nomos Viotias. The nearest occurrence of this rare taxon is at alpine level on Mt Iti. It is surprisingly common on the plateau of Dervenochoria appearing in most of the seasonally flooded fields. It grows together with *Ranunculus sardous* and the similar looking *R. ophioglossifolius* Vill.

**Ranunculus millefoliatus** Vahl

Plateau of Dervenochoria, 2.5 km S of Skourta, damp uncultivated ground near cereal fields, clay, 540 m, 38°11’N, 23°33’E, 24.03.2019, Polimenakos 705 (ATH).

Recorded for eparchia Thivon.

**Ranunculus ophioglossifolius** Vill. (Fig. 13)

Plateau of Dervenochoria, 2.55 km SW of Skourta, in seasonally flooded vineyard, clay, 535 m, 38°11’N, 23°31’E, 05.04.2018, Polimenakos 468 (ATH); loc. ibid., 30.04.2018, Polimenakos & Koutsogiannopoulos 529 (ATH).

New for eparchia Thivon, also reported from Mt Elikonas (Kokmotos & Georgiadis 2005: 436).

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![Fig. 12. Myosurus minimus with M. heldreichii arrowed.](image-url)
Ranunculus peltatus Schrank subsp. peltatus (Fig. 14)
Plateau of Dervenochoria, 2.2 km NE of village Prasino, seasonal pool in cereal fields, clay, 535 m, 38°11'N, 23°32'E, 03.04.2018, Polimenakos & Koutsogiannopoulos 461 (ATHU).
New for nomos Viotias.

Ranunculus rumelicus Griseb.
Mt Pastra, 3.5 km W of Pili, stony slope with sparse Quercus coccifera scrub, limestone, 750 m, 38°12'N, 23°27'E, 26.04.2019, Polimenakos 772 (ATH).
New for Mt Pastra and eparchia Thivon.

Ranunculus trichophyllus Chaix subsp. trichophyllus
Mt Pastra, 2.2 km WSW of Dafni, in artificial depression, limestone, 415 m, 38°14'N, 23°23'E, 30.04.2018, Polimenakos & Koutsogiannopoulos 522 (ATH).
New for Mt Pastra and eparchia Thivon. In Nomos Viotias recently reported from Mt Parnassos (Polimenakos & Tan 2019), and Xerovouni (Kokmotos & Georgiadis 2005: 436).

Resedaceae

Reseda luteola L.
Plateau of Dervenochoria, 2.4 km SE of Pili, fallow field, clay, 535 m, 38°12'N, 23°31'E, 19.05.2018, Polimenakos 581 (ATH); Mt Pastra, cereal fields between Pili and Panakto, clay, 38°12'N, 23°31'E, 19.05.2018, Polimenakos obs.
New for Mt Pastra and nomos Viotias.
Reseda phyteuma L.
Plateau of Dervenochoria, 2.5 km SW of Skourta, damp ground at edge of fallow field, clay, 535 m, 38°11′N, 23°31′E, 19.05.2018, Polymenakos 582 (ATH).
New for nomos Viotias.

Rosaceae

Sorbus umbellata (Desf.) Fritsch subsp. umbellata
Mt Kitheronas, near wind turbine, 0.6 km W of summit Profitis Ilias, limestone, 1340 m, 38°11′N, 23°14′E, 10.06.2017, Polymenakos 276 (ATH).
New for Mt Kitheronas. Scattered round the summit, this taxon occurs on both sides of the border between nomos Attikis and nomos Viotias. All the plants noted were stunted, none of them bore flowers or fruit.

Rubiaceae

Galium debile Desv.
Mt Parnitha, “Mazareika” E of Skourta, wet meadow near stream, clay, 455 m, 38°13′N, 23°37′E, 19.05.2019, Polymenakos & Koutsogiannopoulos 823 (ATH).
New for Mt Parnitha and eparchia Thivon.

Galium divaricatum Lam.
Plateau of Dervenochoria, 2.6 km SSW of Skourta, fallow field, clay, 535 m, 38°11′N, 23°32′E, 03.06.2018, Polymenakos 605 (ATH).
Recorded for eparchia Thivon.

Galium elongatum C. Presl.
Mt Parnitha, “Mazareika” E of Skourta, wet meadow near stream, clay, 455 m, 38°13′N, 23°37′E, 02.07.2019, Polymenakos 869 (ATH).
New for Mt Parnitha and nomos Viotias. Growing mixed with Galium debile which flowers earlier.

Galium tricornutum Dandy
Plateau of Dervenochoria, 3.5 km SE of Skourta, cereal fields, clay, 555 m, 38°11′N, 23°34′E, 24.03.2019, Polymenakos 710 (ATH).
Recorded for eparchia Thivon.

Solanaceae

Solanum alatum Moench
Plateau of Dervenochoria, 2.6 km SW of Skourta, vineyard, clay, 535 m, 38°12′N, 23°31′E, 10.11.2018, Polymenakos 661 (ATH).
New for nomos Viotias. Common on the plateau, usually together with Solanum nigrum L.

Typhaceae

Typha domingensis Pers.
Plateau of Dervenochoria, 1.5 km SW of Skourta, by seasonal pools, clay, 530 m, 38°12′N, 23°32′E, 30.08.2019, Polymenakos 933 (ATH).
Recorded for eparchia Thivon.

Valerianaceae

Valerianella echinata (L.) DC.
Plateau of Dervenochoria, 3.5 km SE of Skourta, damp fallow field, clay, 555 m, 38°11′N, 23°34′E, 24.03.2019, Polymenakos 711 (ATH).
Recorded for eparchia Thivon.

Verbenaceae

Verbena supina L. (Fig. 15)
Plateau of Dervenochoria, 2.2 km NE of village Prasino, muddy dried-out pool, clay, 535 m, 38°11′N, 23°32′E, 19.05.2018, Polymenakos 585 (ATH).
New for eparchia Thivon.

Veronicaceae

Kickxia commutata subsp. graeca (Bory & Chaub.) R. Fern.
Plateau of Dervenochoria, 2.2 km SW of Skourta, seasonally flooded abandoned field, clay, 535 m, 38°11′N, 23°31′E, 28.06.2018, Polymenakos 630 (ATH).
New for eparchia Thivon.

Fig. 15. Verbena supina.
Linaria chalepensis (L.) Mill.
Mt Parnitha, “Mazareika” E of Skourta, fallow fields, limestone, 455 m, 38°13’N, 23°37’E, 01.05.2019, Polymenakos & Pantavos 794 (ATH).

New for Mt Parnitha.

Veronica acinifolia L.
Plateau of Dervenochoria, 1.5 km E of Pili, damp places in fallow fields, clay, 535 m, 38°12’N, 23°30’E, 05.04.2018, Polymenakos 466 (ATH); 1.6 km SE of Pili, damp fallow fields, clay, 530 m, 38°12’N, 23°30’E, 16.04.2019, Polymenakos 759 (ATH).

Recorded for eparchia Thivon. Common on plateau.

Veronica hederifolia L.
Plateau of Dervenochoria, 1.85 km north of Stefani, cultivated and fallow fields, clay, 540 m, 38°11’N, 23°33’E, 02.03.2019, Polymenakos 671 (ATH).

Recorded for eparchia Thivon.

Violaceae

Viola kitaibeliana Schult.
Plateau of Dervenochoria, 2.35 km NE of Stefani, fallow fields, clay, 560 m, 38°11’N, 23°34’E, 02.03.2019, Polymenakos 680 (ATH); 2.6 km SW of Skourta, seasonally flooded vineyard, clay, 535 m, 38°11’N, 23°31’E, 24.03.2019, Polymenakos 718 (ATH).

Recorded for eparchia Thivon.

Viola arvensis Murray
Mt Parnitha, “Mazareika” E of Skourta, fallow fields, limestone, 455 m, 38°13’N, 23°37’E, 01.05.2019, Polymenakos & Pantavos 796 (ATH).

Reported from Mt Parnitha by Diapoulis (1958).

We report distributional data for 148 taxa including two which are new for the Greek mainland (Antinoria insularis and Anthemis palaestina), 7 new for the floristic region Sterea Ellas, 31 for nomos Viotias and 32 for eparchia Thivon. Several of them are rare plants of wetlands as indicated in the text. An assessment shows that Poaceae, Fabaceae and Asteraceae are the dominant families with Ranunculaceae also well represented. Since mainly new floristic records are included in this publication and not the complete floristic composition of the area, we consider it not relevant to list the actual number of taxa in each family nor the life form spectrum for the entire area.

Five aquatics, 23 geophytes and 88 therophytes have been noted. The high numbers of the latter two life form categories are due to the composition of cultivated land on the plateau. Typical species of fallow and cereal fields are present (list appended below*) but it is interesting to note that a number of taxa associated with such agricultural habitats and present in adjacent areas, viz., Leontice leontopetalum, Roemeria hybrida, Bellevalia ciliata, Linaria triphylla, Ceratoccephala falcata, Geranium tuberosum, Cerastium dichotomum, Bupleurum subovatum and Adonis annua, have not been found.

*Some typical species of fallow and cereal fields listed in alphabetical order: Agrostemma githago, Alium cyrilli, Anagallis arvensis, Anthemis altissima, Anthemis cotula, Astragalus hamosus, Bifora testiculata, Baglossoides arvensis, Bunias erucago, Carduus acicularis, Centaurea cyanus, Centaurea solstitialis, Consolida ajacis, Convolvulus arvensis, Coronilla scorpioides, Euphorbia helioscopia, Gagea villosa, Galium tricornutum, Hippocrpis biflora, Lamium amplexicaule, Lathyrus aphanca, Linaria pelisseriana, Lolium temulentum, Medicago arabica, Medicago orbicularis, Melilotus indicus, Muscari neglectum, Nesiia apiculata, Orlaya daucoides, Ornithogalum refractum, Papaver rhoeas, Ranunculus arvensis, Raphanus raphanistrum subsp. raphanistrum, Rapistrum rugosum, Riddolfia segetum, Sinapis arvensis, Valerianella echinata, Veronica hederifolia, Vicia hybrida, Vicia pannonica, Vicia sativa and Viola kitaibeliana.

At the time of writing, the area of the plateau retains its natural character. However, a change in the manner of land exploitation could pose a significant threat to the sensitive and balanced ecosystems of the area. A considerable sector of the cultivated land is now subjected to the process of deep tilling and intensive use of herbicides. In these areas all of the rare plants we have recorded are absent. Floodplain and water diversion projects for the plateau will also significantly reduce the number of vernal pools and sea saline habitats. In these habitats, as the many species that occur in these habitats, alter the rich floristic biodiversity of the area. We found 16 taxa existed in only one or two sites in the research area, thus the destruction of their habitats may cause them to disappear. These are the following: Anthemis palaestina, Antinoria insularis, Bupleurum tenuissimum, Centaurium maritimum, Isoetes haussknechtii, Isoetes hystric, Juncus tenageta, Juncus minutulus,
Myosotis sicula, Myosotis stricta, Myosurus heldreichii, Myosurus minimus, Ranunculus peltatus subsp. peltatus, Reseda phyteuma, Solenopsis laurentia and Spergula arvensis. Ten of them occur fairly near an ongoing active earth excavation site. It is thus necessary to emphasize and make known the existence of the threatened biotopes. The high number of novelties indicates the floristic richness and significance of the plateau as a wetland habitat in urgent need of protection of its plant communities.

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References


