Abstract


Continuing a series of miscellaneous contributions, by various authors, where hitherto unpublished data relevant to the Med-Checklist project are presented, this instalment deals with the families Ephedraceae, Boraginaceae, Capparaceae, Compositae, Cruciferae, Euphorbiaceae, Oxalidaceae, Polygonaceae, Ranunculaceae, Verbenaceae, Cyperaceae, Gramineae, Liliaceae and Orchidaceae. It includes new country and area records, taxonomic and distributional considerations. A new combination in Eragrostis is validated.

Additional key words: Mediterranean area, vascular plants, distribution, taxonomy

Notice

The notations for geographical areas and status of occurrence are the same that have been used throughout the published volumes of Med-Checklist and are explained in the Introduction to that work (Greuter & al. 1989: xi-xiii). For the previous instalment, see Greuter & Raus (2007).

Ephedraceae

Ephedra nebrodensis subsp. procera (Fisch. & C. A. Mey.) K. Richt.

– Cr: Recently reported from Karpathos by Biel & Tan (in Vladimirov & al. 2008: 295) as supposedly new for the Cretan area. The photograph (fig. 3) provided to document this find, however, shows Ephedra foeminea Forssk. (E. campylopoda Fisch. & C. A. Mey.), a species that is widespread and not uncommon on Crete and Karpathos. (See also the entry on Crepis hellenica, below.)

W. Greuter
Boraginaceae

Heliotropium curassavicum L.

P IJ: Israel: Coast of Galilee, En haMifratz junction SE of Acco, disturbed ground, 27.8.2007, Danin & Marta (B). – A perennial, glabrous, rather glaucous and fleshy xenophyte originating from the Americas and naturalised in S Europe, Asia Minor and N Africa, but previously not known to occur in the Levant (Tutin & al. 1972: 86; Greuter & al. 1984: 89; Danin 2004).

A. Danin

Capparaceae

Cleome gynandra L. (Gynandropsis gynandra (L.) Briq.)

A IJ: Israel: Sharon, 5 km S of Netanya, Shaar Poleg Nature Reserve, disturbed ground, 22.5.2008, Vered (B, HUJ). – Rediscovered as a xenophyte in Israel, found in a very limited number of individuals in one location. Not mentioned for Israel in Danin (2004), based on an earlier statement by the same author (in Greuter 1981: 41 “This species does not grow any more in Israel – an introduction that failed”). Cleome gynandra originates from the Old World tropics and is widely naturalised as a weed throughout the tropics (Akeroyd & Knees in Cullen & al. 1995: 129).

A. Danin & S. Vered

Compositae

Ambrosia artemisiifolia L.

P Gr: Greece, Epirus, Nomos of Ioannina, Eparchia of Dodoni: Tsoumerka, municipality of Pramada, Christi, near the bridge at the river Melisourghiotikos, 480 m, 5.7.2006, Bergmeier 06-235 (herb. Bergmeier). – This xenophyte of North American origin has become invasive in Europe and N Africa but has not been recorded from Greece previously (see map in Greuter 2007). In adjacent Bulgaria, the species at present is spreading very rapidly (Dimitrov & Tzonev 2002; Vladimirov & al. 2006: 438). The Greek plants were found on a road embankment, without fields or settlements nearby.

E. Bergmeier

Crepis hellenica Kamari

– Cr: Recently reported from Kasos by Biel & Tan (in Vladimirov & al. 2008: 295) as supposedly new for the Cretan area. Even without seeing a specimen, it is safe to dismiss this record as erroneous, as it is quite unlikely for phytogeographical reasons (and might refer to a number of other small-headed, annual Crepis species). Besides, none of the records by Biel & Tan (l.c.: 294-296) can be trusted, as their determinations are unreliable. The photographs (fig. 3 and 4) provided to document two of their supposed novelties are both misidentified, fig. 4 even as to genus (according to Dittrich 1996: 33-35; Greuter 2007): it does not represent Staehelina petiolata (L.) Hilliard & B. L. Burtt (which is indeed unknown from Karpathos) but Hirtellina fruticosa (L.) Dittrich. (For fig. 3, see the entry on Ephedra nebrodensis subsp. procera, above.)

W. Greuter

Matricaria discoidea DC.

P Gr: Greece, Makedonia, Nomos & Eparchia of Serres: Mt Vrondous, by the ski centre (41°16’N, 23°35’E), in gravel just outside the building, 1600 m, 20.8.1994, Strid & Constantindis 36663 (UPA, herb. Strid). – An introduced South American weed widespread in Europe, but not previously recorded from Greece (see map in Greuter 2007). Degree of naturalisation in Greece unknown so far.

E. Ljungstrand & A. Strid
Cruciferae

Arabis nemorensis (Wolff ex Hoffm.) W. D. J. Koch

+ Gr: Greece, Epirus, Nomos of Ioannina, Eparchia of Dodoni: section of the river Voidomatis between Papingo and Aristi, 450 m, 30.7.2004, Bergmeier 04-158 (herb. Bergmeier). – New to Greece. Similar to Arabis hirsuta (L.) Scop. and A. sagittata (Bertol.) DC., which both occur in Greece. A. nemorensis differs in its short, appressed, mostly simple hairs, especially in the lower part of the stem, and in its numerous cauline leaves, which are more conspicuously dentate. A population of less than 10 plants was found in a Greek alluvial forest with Platanus orientalis L., Alnus glutinosa (L.) Gaertn. and Populus nigra L. The riparian habitat is consistent with that in central and eastern Europe, where A. nemorensis is known to be more hygrophilous than other members of the A. hirsuta group. E. Bergmeier

Hesperis matronalis subsp. eladotricha (Borbás) Hayek

+ Gr: Greece, Epirus, Nomos of Ioannina, Eparchia of Dodoni: section of the river Voidomatis between Papingo and Aristi, 450 m, deciduous alluvial forest, 30.7.2004, Bergmeier 04-142 (herb. Bergmeier); id., Eparchia of Konitsa: SW of the settlement of Bourazani, 700-1000 m, deciduous forest on a N-facing slope, 16.7.2003, Bergmeier 03-68 (herb. Bergmeier). – New to Greece. Plants of the latter provenance are more hairy than those of the former, and the leaves are less pointed, matching a collection from Th. Chitos (B2A19c/20-3b, herb. Chitos) from the same area. The species is given for Albania by Jalas & Suominen (1994: 95, map 2253), close to the Greek border and to the new Greek localities. E. Bergmeier

Euphorbiaceae

Chamaesyce serpens (Kunth) Small (Euphorbia serpens Kunth)

P Gr: Greece, Aegean Islands, Nomos of Evvia, Eparchia of Karistia: Island of Skiros, the airport area (38°58'N, 24°29'E), margin of a lawn, 10.9.2003, Snogerup & Snogerup 18919 (LD; confirm. Benedí & Vicens, in 2007). – Only some tens of plants were seen, but there was no time for a search of the surroundings. This xenophyte has also reached Israel (Danin 2004: 191), Turkey (Radcliffe-Smith in Davis 1982: 579), Crete (Bergmeier in Greuter & Raus 2007: 439), Italy (Conti & al. 2005: 77), France (Tutin & al. 1968: 216), and Spain (Benedí in Castroviejo & al. 1997: 292), apparently establishing itself successfully as a weed of open soil (see Greuter & al. 1986: 221). For the time being we consider it as a casual introduction on Skiros, but it has likely spread beyond the airport area. We recognised it at once by its discrete partial inflorescences (see drawing in Castroviejo & al. 1997: 293), a feature that may permit to spot it in additional places. S. Snogerup & B. Snogerup

Oxalidaceae

Oxalis debilis Kunth

N Ag: Algeria: City of Alger, suburb of Hussein Dey, abandoned garden land and nearby roadside and wall, 20.2. & 9.3.2008, Zeddám (B, det. Raus). – No previous published records from Algeria exist. Oxalis debilis is sometimes named O. corymbosa DC, in basic floras (e.g., Cullen & al. 1997: 23, where it is properly keyed out on its numerous sessile bulbils, broadly obcordate leaflets, and long-hairy petioles and peduncles). It is a xenophyte of South American origin, naturalised as a weed on disturbed ground from NW Europe (“a pestilent weed in gardens, especially in SE England”, Clement & Foster 1994: 208) to Italy (Greuter & al. 1989: 266; Conti & al. 2005: 138). In the city of Alger, it was first observed in 2005 in an abandoned garden, by 2008 it had got
established in about ten other neighbouring locations and started to spread along roadsides and in the shade of walls.

**Polygonaceae**

**Rumex vesicarius** L.

P Cr, N Gr: Greece, Kriti, Nomos of Chania, Eparchia of Kidonia: Platanias, W of Chania (35°31'N, 23°58'E), in the SW part of the township in a roadside ditch, 50 m, 12.4. 2008, Snogerup & al. 22542 (LD). – Less than 10 individual plants were observed during a short halt, but the surroundings have not been thoroughly searched. *Rumex vesicarius* is an invasive ruderal of wet localities. It was first found in Greece near Nauplion in 1847 and 1855, later believed to be extinct but recently rediscovered in several places in the Nomos of Argolis. Subsequently it was found in the Nomos of Korinthia and in Attiki and must be regarded as naturalised in continental Greece (Snogerup in Strid & Tan 1997: map 173). In Crete, where its degree of naturalisation is not yet confidently known, it likely occurs elsewhere in the many wet, disturbed places surrounding Platanias.

**Ranunculaceae**

**Thalictrum minus** subsp. *pratense* (F. W. Schultz) Hand

– Co: See next entry.

**Thalictrum minus** subsp. *saxatile* Ces.

+ Co: France, Corsica: Secteur San Petrone, au Monte Sant’Angelo de Silvareccio (42°28'N, 09°25'E), 1150 m, 17.6.1999, Jeanmonod 6292 & Guyot; id.: Monte Tre Pieve, Massif du San Pedrone, 12.7.1971, Gamisans 549 & 584; id.: Mte Sant’Angelo de la Casinea, au pied de la falaise E du cône terminal, 1180-1185 m, 11.7.1953, Macchioni; id.: Punta di Caldane, vers E, Penta alle Ribe, 930 m, 16.7.1969, Gamisans 1644 (all G, det. Hand). – Hand (2001), in his revision of *Thalictrum minus*, does not cite material from Corsica. From a chorological point of view, only two of the eight accepted subspecies may reasonably be expected to occur on the island. According to Bosc & Jeanmonod (2007), plants from Corsica belong to *T. minus* subsp. *saxatile*, some approaching *T. minus* subsp. *pratense* (F. W. Schultz) Hand. These authors cast doubt on the morphological distinctness of subspecies in SW Europe. Admittedly, the subspecies of *T. minus* are weakly characterised morphologically. However, most individuals can be correctly placed when a combination of characters is used, the plants’ plasticity in response to ecological factors (e.g. shade, water supply) has often been underestimated, which led to misidentifications (see Hand 2001). The study of material kept at the Geneva herbarium (G), a key collection for the Corsican flora, showed that most probably only one taxon of *T. minus*, subsp. *saxatile*, occurs in Corsica. All complete specimens (bearing flowers and/or fruits) show the corresponding features of, e.g., stem structure, leaf position, leaflet form and structure, and size of the fruit beak. Incomplete gatherings (e.g., sterile plants) are likely to belong to the same taxon.

**Simaroubaceae**

**Ailanthus altissima** (Mill.) Swingle

N Ag: Algeria: City of Alger, suburb of Hussein Dey, abandoned garden land, 22.7.2008, Zeddam (B, leaves); ibid., near the hospital, 10.8.2008, Zeddam (B, fruits). – There are no previous published records of this xenophyte of E Asian origin from Algeria,
where in places it has become a dangerous invasive tree. I have photos from Alger that show how Ailanthus altissima breaks the ground with its roots. A. Zeddam

**Verbenaceae**

**Lantana camara** L.

A Ag: Algeria: City of Alger, suburb of Kouba, along roadsides, 31.1.2008, Zeddam (B); id., suburb of Hussein Dey, as a garden escape along roadsides, 26.3.2008, Zeddam (B). – An ornamental xenophyte originating from tropical America, not previously stated to occur outside cultivation in Algeria. A. Zeddam

**Cyperaceae**

**Cyperus odoratus** L.

N IJ: Israel: Hula Plain, by a freshwater ditch, 29.6.2008, Danin (B, HUJ, PAL). – We collected the plant in 2007 already. The second author sent it to the sedge expert G. C. Tucker, Eastern Illinois University, Charleston, who identified it, adding that it is a polymorphic plant, patchily distributed in the Tropics of both the New and the Old World, as either an annual or short lived perennial. In Israel we consider it an established alien. A. Danin & J.-M. Dufour-Dror

**Gramineae**

**Agrostis lachnantha** Nees


**Arundo mediterranea** Danin

+ HS: Spain, Catalonia: Barranc de Núvols near Amposta, c. 200 km S of Barcelona, 9.7.2008, Danin & al. (B, BCN, BM, E, HUJ, K, PAL). – A recently described taxon (Danin 2004: 362), not yet definitely known to occur in Spain. Danin (2004: 261, 262) had questioned Bolòs & Romo’s (1991: mapa 286) report of *Arundo plinii* Turra from the vicinity of Barcelona, not supported by herbarium material. There are, however, a few rare populations of *A. mediterranea* in the Ebro river catchment area.

A. Danin, C. Blanché, F. Royo & M. Arrufat

+ Tu: Turkey, A 1 (E), Tekirdağ: 7 km E of Tekirdağ to Istanbul, between the coastal road and the beach, 3.7.2007, Danin (B, E, HUJ, PAL). – This is the first record of *Arundo mediterranea* for Turkey-in-Europe. A. Danin

**Bromus alopecuros** subsp. **biaristulatus** (Maire) Acedo & Llamas (B. caroli-henrici subsp. **biaristulatus** (Maire) H. Scholz)

+ LS: Syria: Al Zawiah Mountain, 600 m, 7.5.2007, Böcker (B, det. Scholz). – *Bromus lanceolatus* subsp. *biaristulatus* was described from Cyrenaica (Maire 1942: 98; Acedo & Llamas 1994: 205, 207). Mouterde (1966: 126) treated it as a member of the flora
of Lebanon and Syria, but Greuter (1972: 83) referred Mouterde’s plants to *B. caroli-henrici* Greuter. In reality, at least in Syria, both *B. alopecuros* subsp. *caroli-henrici* (Greuter) P. M. Sm. and subsp. *biaristulatus* occur. Böcker’s above-cited specimen fits Maire’s (1955: 263) description of the taxon from Cyrenaica in every detail: “Panicule étroite simple, spiciforme, à épillets très grands (3-5 cm [in Syrian specimens up to 7 cm!]), solitaires, … glumes c. 11-13 mm, ordinairement légèrement bidentées aux sommet …, lemmes … à lobes apicaux prolongés en mucron ou aristule scabre pouvant atteindre 2 mm”. In contrast, *B. alopecuros* subsp. *caroli-henrici* (also present in Syria, 2007, Böcker, B) exhibits spikelets up to 4.5 cm long, glumes entire at apex and 8-11 mm long, and lemmas terminating in biardiate points shorter than 1 mm. The narrow-linear, long “spikes” of *B. alopecuros* subsp. *biaristulatus* give the plant a peculiar appearance. Its disjunct occurrence in Cyrenaica and Syria I interpret as the relict of a former continuous distribution. The relegation of *B. caroli-henrici* to the synonymy of *B. alopecuros* subsp. *biaristulatus* (Acedo & Llamas 1994: 207) is to be rejected. H. Scholz

*Bromus regnii* H. Scholz

+ An, Gr, Tu: Greece, Makedonia, Nomos of Kilkis, Eparchia of Peonia: 2.3 km E of Koupa (41°4′N, 22°23′E), 490 m, 12.6.1992, Willing 18103c (B, together with *Bromus japonicus* Thunb. subsp. *japonicus*; det. Scholz). – Turkey, A1(E), Kirklareli: 13 km a Hasva versus Edrine, ad versuras et in incultis, 18.6.1984, Rechinger 60717 (B). – Id., C1, Muğla: c. 6 km W of Marmaris, Liquidambar orientalis forest, serpentine, c. 100 m, 16.5.1983, Carlström 10398; ibid.: Gölyeri, c. 8 and 7 km NE Emecik, limestone, 18.5.1983, 11.5.1984, Carlström 10683, 12539; ibid.: Kuzlidağ, 4 km NW İçmeler, phrygana on serpentine, c. 100 m, 20.5.1983, Carlström 10812; ibid.: 3 km SE of Marmaris, open ground on serpentine, 20.5.1983, Carlström 10894; ibid.: 10 km N of Marmaris, serpentine, 26.5.1983, Carlström 11280; ibid.: between Tüldağ and Karadağ, limestone, 9.5.1980, Carlström 9738; ibid.: Dağba peninsula, easternmost part of Hisarönü, 11.5.1984 Carlström 12745 (all Carlström collections LD, under “*B. japonicus*”; det. Scholz). – These are first records from Europe and Asia Minor. *Bromus regnii* was described from Cyprus (Scholz 1995: 237). It differs from *B. japonicus* in the acute (not obtuse) dents of the lemma apex, deeper awn insertion, 3-4 (not 1-1.5) mm long anthers, and shorter hairs on the leaf sheaths. H. Scholz

*Catapodium balearicum* (Willk.) H. Scholz

+ AE, Tu: Greece, E Aegean Islands, Nomos of Dodekanisos, Eparchia of Rhodes: Island of Rhodes, E coast, Paralia Tsambika c. 3 km NW Archangelos (36°13′49″N, 36°08′58″E), sandy beach, c. 2 m, 27.3.2008, Raus (B); Turkey, C3, Antalya: coast E of Antalya, Belek park (Absa) W of Gürpinar (36°49′56″N, 31°10′59″E), depression in coastal dunes, 12.4.2005, Ristow 319/05 (B). – These are the easternmost known localities of a widespread Mediterranean species that was often overlooked or mistaken for *Catapodium marinarum* (L.) C. E. Hubb. The latter can be easily distinguished from *C. balearicum* by its narrow racemes, not or scarcely spreading spikelets, and a central yellowish band on the back of the raceme rhachis. In *C. balearicum* the spikelets are distinctly spreading, sometimes forming a congested panicle, and the rhachis back is evenly green, lacking a yellow band (Scholz 2000: 96-102; Brullo & al. 2003: 159-161). H. Scholz


N Ga: Portal (2002) described Eragrostis pilosa subsp. felzinesii from three localities in S France (holotype from Dordogne river, Dép. du Lot) and sent specimens of cultivated plants to many herbaria. His original description and drawings as well as a specimen (B; see Portal 2002: 4) agree in every detail (spikelet lengths and widths, caryopses, widely divergent pedicels) with E. pectinacea var. miserrima as treated in American Floras (e.g., Peterson 2003: 83-84, line drawings). In America the taxon, here raised to subspecies rank, “grows in the southern United States, from Texas to Florida, and south through the lowland tropics to Brazil” (Peterson l. c.). In France it is not an indigenous European taxon like E. pilosa, as was assumed by Portal, but apparently a recent introduction from the New World.

H. Scholz

Festuca rubra L.

+ LS: Syria: Aleppo Mts, Bik Obeci (36°47'24"N, 36°49'12"E), near the Turkish frontier, c. 1200 m, 13.5.2007, Böcker (B, det. Scholz). – This is the first record from Syria. Recently it has been reported from Cyprus, as probably native (Hadjikyriakou & Scholz in Hand 2006: 801).

R. Böcker & H. Scholz

Leymus arenarius (L.) Hochst.

D Gr: Greece, Thrace, Nomos of Rodopi, Eparchia of Komotini: 5-5.5 km from Porto Lagos, near turnoff to Fanari (41°00'N, 25°10'E), lagoon, salines and sandy areas, 0-3 m, 5.6.1991, Strid & Kit Tan 31348 (ATH, G, herb. Strid). – No previous records from Greece. This species is widespread along the Atlantic coast of Europe (Tutin & al. 1980: 191), and there is a wide disjunction to the Greek locality. It is sometimes planted to stabilise sand dunes and it is possible that it has been thus introduced, although the Greek plants appeared to be native.

E. Ljungstrand & A. Strid

Puccinellia fasciculata (Torr.) E. P. Bicknell subsp. fasciculata

+ Gr: Greece, Sterea Ellas, Nomos of Eotolia-Akarnania, Eparchia of Vonitsa-Xiromeros: Vonitsa (38°54'N, 20°54'E), coastal meadows and salines just E of town, 0-2 m, 25.5.1993, Strid & al. 35843 (herb. Strid) & 35852 (G, herb. Strid). – A species of salt marshes in the W and Central Mediterranean area, previously known to occur eastwards as far as W Croatia (Dalmatia, see Hayek 1932: 273, under P. borreri (Bab.) Hayek).

E. Ljungstrand & A. Strid

Zingeria biebersteiniana (Claus) P. Smirn. subsp. biebersteiniana

+ IJ: Israel: Mt Hermon, doline, 15.5.2008, Kerret (B, HUJ). – Previously known to occur in the Crimea, E Anatolia, the Caucasus and SE Russia. Zingeria biebersteiniana subsp. trichopoda (Boiss.) R. R. Mill, with longer spikelets (1.6-2 mm) and more acute (not obtuse) glumes, is more widespread, from the Syrian Desert and N Iraq to Iran and Siberia (Doğan & Mill in Davis 1985: 365).

L. Kerret & H. Scholz

Liliaceae

Notosscorodum gracile (Aiton) Stearn

N Ag: Algeria: City of Alger, suburb of Hussein Dey, abandoned garden land, 14.5.2008, Zeddam (B, det. Raus). – No previous published records from Algeria exist. Notothscorodum gracile (“N. inodorum” auct.) originates from Central and South America (it was described from Jamaica) and has become naturalised in warm-temperate regions
of Europe, Africa, Asia and Australia, spreading rapidly by seed and persisting by prolific bulblet production (Stearn 1986: 338; Guaglianone 1972: 201, under “N. inodorum”; Huxley & al. 1992: 330). In the Med-Checklist area it is known to occur as an established alien of cultivated ground in Portugal, Spain, France, Italy and Morocco (Tutin & al. 1980: 70; Valdés & al. 2002: 870).

**Orchidaceae**

**Himantoglossum affine** (Boiss.) Schltr.

+ RK: Ukraine, Crimea, Bakhchisaray region: Near village of Skalistoye (44°48′16″N, 33°58′31″E), rocky hills steppe with vegetation along the margin of shibljak forest of Quercus pubescens Willd. and Carpinus orientalis Mill., NE slope, 320 m, 30.5.2007, Yena & al. (CSAU, DE, UU); id., Sevastopol region: Vicinity of Inkerman, SE slope of Sakharnaya Golovka hill (44°35′37″N, 33°04′28″E), along margin of Carpinus orientalis shibljak, 140 m, 3.6.2007, Yena & al. (CSAU, DE, UU); ibid., Mt Agarmysh (45°03′46″N, 35°04′28″E), E slope, along margin of forest of Q. pubescens and Fraxinus spp., 305 m, 29.06.08, Yena & Efetov (CSAU). – Not previously reported for the Crimean Peninsula, nor from E Europe in general, this species is similar to its relative **Himantoglossum caprinum** (M. Bieb.) Spreng., long known from Crimea, but is easily distinguished from it by the absence of purple dots on the base of the flower lip (see Buttler 1986: 157 for diagnostic illustrations).

A. Yena, G. Sramkó, M. Óvari & R. Kish

**References**


Mouterde, P. 1966: Nouvelle Flore du Liban et de la Syrie. 1. – Beyrouth.


Stein, W. T. 1986: Nothoscordum gracile, the correct name of N. fragrans and the N. inodorum of authors (Alliaceae). – Taxon 35: 335-338. [CrossRef]

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