

## Check-list of Additional Taxa to the Supplement Flora of Turkey IV

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**Abstract:** The fourth check-list of the series entitled "Additional taxa to the Flora of Turkey" comprises a total of 175 taxa based on data given in 162 papers published up until the end of 2007. It provides details of taxa not recorded in the 11 volumes of the Flora of Turkey and the East Aegean Islands nor in the there previously published supplementary check-lists.

**Key Words:** Turkish Flora, new species, additional taxa

### Türkiye Florası Ek Ciltlerine İlave Edilen Taksonların Listesi IV

**Özet:** "Türkiye Florasına ilave taksonlar" adlı seri halinde yayınlanmakta olan çalışmanın dördüncüsüdür. Bu çalışma 2005-2007 yılları arasında yayınlanan 162 çalışmada verilen takson ile Türkiye Florası ve eklerinde yer almayan taksonlar ile bu seri çalışmanın ilk üçünde bulunmayan toplam 175 taksonu içermektedir.

**Anahtar Sözcükler:** Türkiye Florası, yeni türler, ilave taksonlar

### Introduction

The Second Supplement of *Flora of Turkey and the East Aegean Islands* was published in 2000. Subsequent to its publication (Güner et al., 2000) and up until the end of 2007, 470 additional taxa have been added to the flora, published in over 358 papers in various journals. In seven years, 470 taxa have been added to the flora of Turkey in check-lists III and IV; many are new to science.

Since the publication of the *Flora of Turkey* (Davis, 1965-1985; Davis et al., 1988) the Turkish flora has received considerable attention from botanists from both Turkey and abroad. Ongoing library work revealed that we inevitably had overlooked a certain number of taxa. We were of fully aware that subsequent to the publication of the first paper of the series, further additions would be

discovered to Turkey's exceptionally rich flora. For these reasons, the first author realised that a series of papers would be necessary every few years. Nearly 500 papers on the flora of Turkey published in a wide range of journals and other publications since 1988 have been reviewed by the authors. They are now stored as a collection in the library of the Herbarium of Faculty of Pharmacy, İstanbul University (ISTE). The first check-list of the taxa additional to the *Flora of Turkey* was published in 1994 (Özhatay et al., 1994) and the second in 1999 (Özhatay et al., 1999), with a third one following in 2006 (Özhatay & Kültür, 2006). The present fourth part aims to compile all the published taxa added to the *Flora of Turkey* from 2005 to 2007. After the publication of check-list III, since 2005, 162 further papers dealing

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with the flora of Turkey have been published and many additional taxa have been recorded.

The present list contains a total of 175 taxa, of which 121 taxa were added as taxa new to science (comprising 85 species, 23 subspecies, 9 varieties, and 3 hybrids), whilst a further 54 known taxa have previously been unrecorded from Turkey (40 species, 13 subspecies, and 1 variety) (Table 1). The latter include one genus new for science (*Dumaniana*) and seven genera previously unreported from Turkey (*Asperuginoides*, *Caucasalia*, *Leptaleum*, *Loncomelos*, *Scopolia*, *Stroganowia*, and *Tetradiclis*). The remaining 295 taxa represent new combinations, new status indications, or newly suggested synonyms for previously known taxa (Table 2).

The list of the additional taxa is arranged in alphabetical order within families, genera, and species under four main systematic groups: **Pteridophyta**, **Gymnospermae**, **Dicotyledonae**, and **Monocotyledonae**. The format is in accordance with that in Davis' *Flora of Turkey* and references to original papers appear in brackets at the end of the taxon name. It is hoped that this list will provide useful information for researchers currently working on the Turkish flora.

We have endeavoured to trace all additional taxa to the flora published until the end of 2007. Nevertheless, we are certain that further taxa remain unreported either in Davis' *Flora of Turkey* or in our supplementary check-lists: accordingly, we invite additions or comments for future issues in the series.

Table 2. The list of taxa whose taxonomic status changed after publication of the Second Supplement (Check-list III and Check-list IV).

	Check-list III	Check-list IV
comb. nov.	11	87
comb. + stat. nov.		63
stat. nov.	13	5
syn. nov.		138
nomen nov.	4	2
Total	28	295

**The list of additional taxa**

e = endemic species; \* = new record for Turkish flora; \*\* = new taxon for science

■ = new genus for Turkish flora, ■ ■ = new genus for science

□ = genus previously known by different name

**PTERIDOPHYTA**

**ISOETACEAE (1: 36)**

**Isoetes L. (1: 37)**

e \*\*I. *anatolica* Prada et Rolleri in Bot. J. Linn. Soc. 147: 215-222 (2005).

(Prada & Rolleri, 2005)

Type: (Turkey) **A3** Bolu, al S de Abant Gölü, 18.vi.2001, borde de charca, C. Aedo et al. 6185 (holo. MA)

Table 1. The list of the additional taxa to the Flora of Turkey after publication of the Second Supplement (check-list III + check-list IV).

	Taxa new to science		Taxa new to Turkey		
	Check-list III	Check-list IV	Check-list III	Check-list IV	
genus	3	1	genus	6	7
species	154	85	species	75	40
subspecies	12	23	subspecies	16	13
variety	15	9	variety	13	1
hybrid	8	3	hybrid	2	--
form	--	1	form	--	--
Total	189	121	Total	106	54
Total	310	Total	160		

TOTAL After the second supplement was published 310 + 160 = 470 taxa were added to the Turkish flora until the end of 2007.

Isotypes: Idem., -plants B, C, D, E-; Turkey: Bolu, al S de Abant Gölü, 18.vi.2001, borde de charca, C. Aedo et al. 6181 (MA 688427).

#### SPERMATOPHYTA

#### GYMNOSPERMAE

#### CUPRESSACEAE (1: 76)

#### *Juniperus* L. (1: 78)

\* *J. deltooides* R.P.Adams in *Phytologia* 86: 49-51 (2004).

(Adams, 2004)

Type: (Greece) 14 km E. of Archova, 22.v.2001, R.P.Adams 9436 (holo. BAYLU)

(Turkey). **B3** Eskisehir: 30 km N Eskisehir, 1064 m, 20.v.2001, R.P.Adams 9430, 9431, 9432 (BAYLU). **C6** Hatay: 8 km from Belen towards Antakya, 600 m, 6.v.1965, M.J.E. Coode & B.M.G.Jones 524 (K). **A7** Trabzon: Macka, 300 m, 2.iv.1960, Stainton 8152 (K). **C2** Antalya: Elmalı, 1800 m, 19.iv.1936, T.A.Tengwall, 400 (K). **A8** Artvin: 700 m, 27.vi.1957, Davis & Hedge 30095 (K). **B4** Ankara: above Ankara, 400 m, 5.vii.1974, P.H.Davis 13062 (K).

*J. oxycedrus* L. Sp. Pl. 1038 (1753) subsp. *oxycedrus*

e \*\* var. *spilinanus* Yalt., Eliçin et Terzioğlu in *Turk J. Bot.* 31: 38 (2007).

(Yaltirik et al., 2007)

Type: (Turkey) **B1** Manisa: Spildağı National Park, in forest clearings of *Pinus brutia* and *P. nigra* subsp. *nigra* var. *caramanica* and on stony slopes, 800-1400 m, 28.v.1995, KATO 13371 (holo. KATO; iso. KTUB).

#### ANGIOSPERMAE

#### DICOTYLEDONES

#### BORAGINACEAE (6: 237)

#### *Alkanna* Tausch (6: 414)

\* *A. stribrnyi* Velen. in *Fl. Bulg. Suppl.* 647 (1891).

(Greuter & Raus, 2001)

European Turkey. **A1 (E)** Tekirdağ: Kumbaga (Rodosto, Tekirdağ), by "St. Anna" Chapel, 4.5.1913, Nikolov (SO).

#### *Cynoglossum* L. (6: 306)

\**C. vanense* Sutorý in *Edinb. J. Bot.* 61: 119-124 (2005).

(Sutorý, 2005)

Type: (Turkey) **C10** Hakkari: [Şemdinli]; Çelçane-çaj, 11.vi.1916, A.B.Schelkovnikov & V.Schiptschinskij 100-16, *Expedition Urmensis Musei Caucasic* 1916 (holo. LE).

#### *Onosma* L. (6: 326)

e \*\**O. mersinana* Riedl, Binzet et Orcan in *Edinb. J. Bot.* 61: 127-129 (2005).

(Riedl et al., 2005)

Type: (Turkey) **C5** Mersin: Erdemli, Müğlü deresi, 15.vi.2001 Binzet 119 (holo. GAZI; iso. E, W, Mersin University, Turkey).

e \*\**O. riedliana* Binzet et Orcan in *Novon* 17: 8-9 (2007).

(Binzet & Orcan, 2007)

Type: (Turkey) **C5** Mersin: Gülnar, Gülnar-Ermenek 42 km, 1450 m, roadside, fallow fields, 24.v.2003. Binzet G7 (holo. GAZI; iso. GZU, M).

#### *Paracaryum* DC. Boiss. (6: .282)

e \*\**P. hedgei* Aytaç et R.R.Mill in *Edinb. J. Bot.* 61: 109-111 (2005).

(Aytaç & Mill, 2005)

Type: (Turkey) **C4** Konya: Ereğli, 3 km N of İvriz, around Ayrancı Dam. 122-1300 m, protected *Abies cilicica* and *Pinus nigra* forest, 22.vi.1997, Z.Aytaç 7595 (holo. GAZI; iso. ANK, E).

#### *Rindera* Pallas (6: 300)

e \*\**R. dumanii* Aytaç et R.R.Mill in *Edinb. J. Bot.* 61: 113-115 (2005).

(Aytaç & Mill, 2005)

Type: (Turkey) **C3** Antalya: Akseki-Beyşehir: Çamlık kasabası, Kızıldağ doğu yamaçları, 1600-1700 m, *Pinus nigra* orman açıklığı, 30.vi.1998, Z.Aytaç 7868 & H.Duman (holo. GAZI; iso. ANK, E).

#### CAMPANULACEAE (6: 2)

#### *Campanula* L. (6: 2)

\**C. cecillii* Chitt. in *Gardeners' Chronicle Ser.* 3, 89: 397 Fig. 210 (1931).

(Sáez & Aldasoro, 2003)

S.E. Anatolia. **C8/9** Mardin, Senar, 6.vi.1888, Sintenis 921 (W); **C8** Siirt: Sirnak to Gizre, 14 km from Sirnak, 8.v.1966, Davis 42678 (W); **C8** Mardin: NW of Mardin, Diyarbakir, 30.v.1983, Sorger 83162 (W).

e **\*\*C. demirsoyi** Kandemir in Nord. J. Bot. 25: 53-55 (2007).

(Kandemir, 2007)

Type: (Turkey) **B7** Erzincan: Munzur mountains, along Mercan river, 1968 m, limestone crevices 04.vii.2005, A.Kandemir 6992 (holo. GAZI; iso. ANK).

**\*C. hierosolymitana** Boiss., Diagn. Pl. Orient. Ser. 1, 11: 62 (1849).

(Sáez & Aldasoro, 2003)

Lectotype: [Palestine], aux pieds des rochers à Jerusalem, Naplouse, iii-iv. 1846 Boissier s.n. (G).

Turkey: Syria, prope Alexandrette (İskenderun), 1834, Montbret 18 (W).

**C. pamphylica** (Contandr. et Pamukç) E.Akçiçek et Vural in Ann Univ Sci 46 (54) (1972).

e **\*\*subsp. afyonica** E.Akçiçek et Vural in Ann. Bot. Fennici 42: 408-409 (2005).

(Akçiçek et al., 2005)

Type: (Turkey) **B3** Afyon: Şuhut, Akyatak mahallesi, 1300-1350 m, crevices of volcanic rocks, 16.vii.2002, E.Akçiçek 3758 (holo. GAZI; iso. ANK. ISTF)

#### CARYOPHYLLACEAE (2: 15)

**Arenaria** L. (2: 17)

**A. dianthoides** Smith, Ic.Pl.Ined. 16, t. 16 (1789).

e **\*\*subsp. tuncbasi** Eren et Parolly in Willdenowia 36: 834-835 (2006).

(Parolly & Eren, 2006)

Type: (Turkey) **C3** Antalya: Beydağları, Çalbalı Dağı, ascent from Feslikan Yaylası, 1900 m thorn-cushion community, 6.vi.2003, Eren 37/3 & Şirin (holo. GAZI; iso. AKDU, AYDN, B, herb. Parolly).

**Bolanthus** (Ser.) Reichb. (2: 171)

e **\*\*B. huber-morathii** C.Simon in Bauhinia 6:83 (1977).

(Simon, 1977)

Type: (Turkey) **A2 (A)** Bursa: South side of the Ulu Dağ, at the road between Soğukpınar and Keles, 3 km after Soğukpınar, ca. 900 m, 3.viii.1976 (holo. Hb. C.Simon 76-178).

**Cerastium** L. (2: 73)

**C. brachypetalum** Pers., Synops. pl. 1: 520 (1805)

**\*subsp. tauricum** (Sperengel) in Murb. Lunds. Univ. Arsskr. 27 (5): 159 (1892).

(Keskin & Çırpıcı, 2006)

Turkey: **A2(A)** İstanbul Burgazada, V. 1910, S.Selinka, ISTF 16; Tuzla istasyonu kenarı, 29. iv. 1962, B.Tutel 62/12, ISTF 18374 **C5** İçel: Tarsus, Nomrun bölgesi, Karanlıkdere serisi, Kazağacı, Kurukatran mevkisi, güney orta yamaçlar, 1500 m, 20.v.1979, F.Bozkuş 25536, Mersin: Gülnar-Ermenek arası, Gülnar dan 18 km, 1100 m, 10.vi.1950, A.Atilla, ISTF 10403.

**Gypsophila** L. (2: 149)

e **\*\*G. osmangaziensis** E.Ataşlar et A.Ocak in Ann. Bot. Fennici 42: 57-59 (2005).

(Ataşlar & Ocak, 2005)

Type: (Turkey) **B3** Eskişehir: Osmangazi University Meşelik Campus area, 810 m, steppe, open rocky places, 28.viii.2002, E.Ataşlar & A.Ocak (holo. OUFE).

**Saponaria** L. (2: 138)

**\*S. bargyliana** Gombault in Bulletin Societe Botanique de France 109: 265 (1962).

(Mutlu, 2006)

S. Anatolia. **C6** Hatay: Erzin, 30 km from Kuzuculu village towards Ufacık area, 1200-1350 m, 17.vi.2002, *F. orientalis*-*C. orientalis* mixed forest, B.Mutlu 8034.

e **\*\*S. karapinarensis** Vural et N.Adıgüzel in Belg. Jour. Bot. 139: 252-254 (2006).

(Vural et al., 2006)

Type: (Turkey) **C4** Konya: Karapınar, Meke Gölü, 1000 m, volcanic scree, 30.vii.1997, M.Vural 7969, N.Adıgüzel & F.Ertuğ (holo. GAZI; iso. ANK, HUB, EGE, Hb. YILDIRIMLI).

**Silene** L. (2: 179)

**S. acaulis** (L.) Jacq., Enum. Stirp. Vindob. 78 et 242 (1762).

e **\*\*subsp. vanensis** Özgökçe et Kit Tan in Ann. Bot. Fennici 42: 144-147 (2005).

(Özgökçe et al., 2005)

Type: (Turkey) **B9** Van: Ahta Dag, south-east of Kalecik village near Ozalp, 2500-2700 m, 15.v.1998 F.Özgökçe 5911 (holo. VANF; iso. BEOU, hb. Kit).

e \*\***S. nerimaniae** G.Ecevit Genc, Kandemir et İ.Genc in Nord. J. Bot. 25: 58-59 (2007).

(Ecevit Genc et al., 2007)

Type: (Turkey) **B7** Erzincan: Kemaliye, 4 km from Erzincan by Salihli village, 1502 m, 12.v. 2005, ISTE 83459 (holo. ISTE).

e \*\***S. sumbuliana** İ.G.Deniz et O.D.Düşen in Ann. Bot. Fennici 41: 293-295 (2004).

(Deniz & Düşen, 2004)

Type: (Turkey) **C2/3** Antalya: Elmalı Çamkuyu, the top of Avlankuzu mountain, 1850-1880 m, clearing in *Cedrus libani* forest and on calcareous slopes, 21.v.2001, İ.G. Deniz 1573 (holo. AKDU; iso. ANK, HUB, GAZI).

#### COMPOSITAE (5: 1)

##### *Bidens* L. (5: 46)

\***B. frondosa** L., Sp. Pl. 832 (1753).

(Coşkunçelebi et al., 2007)

N.E. Anatolia. **A7** Trabzon: Kanuni Kampusü, ditches, 12.vii.2006, 50-100 m, Coşkunçelebi & Vladimirov (SOM), 28.viii.2006, 50-100 m, Coşkunçelebi 629 (KTUB). **A8** Rize: İyidere, İyidere merkez kavşak, roadsides, 19.vii.2006, 5-10 m, Coşkunçelebi 627 (KTUB); Artvin: on the roadsides to Artvin city centre, 24.viii.2006, 200-300 m, Coşkunçelebi 628 (KTUB).

■ **Caucasalia** B.Nord. in Pl. Syst. Evol. 206 (1-4): 22, (1997).

e \*\***C. pontica** (K.Koch) Greuter in Willdenowia 35: 227 (2005).

(Greuter & Raab-Straube, 2005)

Ref. note: Koch did not mention his collecting locality, but stated the general area, the mountains of Pontus ("im pontischen Gebirge"). According to Lack (in Notes Roy. Bot. Gard. Edinburgh 37: 89. 1978) this area is entirely situated in Turkey, A7 Trabzon to A8 Çoruh, where the species has not been collected since, but ought to be looked for.

*Centaurea* L. (5: 465)

e \*\***C. elazigensis** Kaya et Vural in Novon 17: 198-201 (2007).

(Kaya & Vural, 2007)

Type: (Turkey) **B7** Elazığ: Elazığ-Palu, Baltaş village, dry and rocky slopes, 1400-1500 m, 20.vii. 2005, Z.Kaya 17 (holo. GAZI).

e \*\***C. glabro-auriculata** Uysal et Demirelma in Ann. Bot. Fennici 44: 219-221 (2007).

(Uysal et al., 2007)

Type: (Turkey) **C3** Konya: Derebucak, Tekneliyatak Tepesi, 25.vii.2003, Demirelma 2770 (holo. KNYA).

e \*\***C. goeksunense** Aytaç et H.Duman in Pak. J. Bot. 37: 563-565 (2005).

(Aytaç & Duman, 2005)

Type: (Turkey) **C6** Kahramanmaraş: Göksun, Binboğa dağı, 1600-1650 m, between Yeşilkent and Göksun, near fields, 25.vi.2001, Duman 8606. (holo. GAZI, iso. ANK, HUB, E, hb YILDIRIMLI).

e \*\***C. kizildaghensis** E.Uzunhisarcıklı, E.Doğan et H.Duman in Bot. J. Linn. Soc. 153: 61-64 (2007).

(Uzunhisarcıklı et al., 2007)

Type: (Turkey) **C3** Konya: Derebucak, Çamlık, Kızıl Dağ, 1600-1700 m, serpentine rocky slopes, open area of a *Pinus nigra* forest, 12. viii. 2003, H.Duman 9129 (holo. GAZI; iso. ANK, HUB).

e \*\***C. marashica** E.Uzunhisarcıklı, M.Teksen et E.Doğan in Ann. Bot. Fennici 42: 309-311 (2005).

(Uzunhisarcıklı et al., 2005)

Type: (Turkey) **B6** Kahramanmaraş: Göksun, Armut Mountain, Kartallık Kayası, 1700 m, rocky slopes, 23.vii.2003, M.E.Uzunhisarcıklı 1901 & M.Tekşen, E.Doğan (holo. GAZI; iso. ANK, HUB).

e \*\***C. tuzgoluensis** Aytaç et H.Duman in Belg. Jour. Bot. 139: 256 (2006).

(Vural et al., 2006)

Type: (Turkey) **C4** Aksaray: Eskil, Karagöz district, 1000 m, 29.vii. 1998, halophytic steppe, Duman 6826 & Aytaç (holo. GAZI, iso. ANK, HUB, Hb, YILDIRIMLI).

e \*\***C. ulrichiorum** Wagenitz, Hellwig et Parolly in Willdenowia 36: 424-427 (2006).

(Wagenitz et al., 2006)



Type: (Turkey) **C4** Antalya: NE Demirtaş (Richtung pass), 950 m, steiler Erdbang, Exp. W, 7.9.2001, R.Ulrich 1/25 (holo. GOET).

e **\*\*C. wernerii** Wagenitz, Hellwig et Parolly in Willdenowia 36: 429-431 (2006).

(Wagenitz et al., 2006)

Type: (Turkey) **C3** Antalya: Finike-Korkuteli, N Finike, 440 m, senkrechte Kalkfelsen, SE-Exposition, 29.4.2004, R.Ulrich 4/1 (holo. GOET; iso. B).

**Cirsium** Miller (5: 370)

**\*C. eriophorum** (L.) Scop., Fl. Carn. Ed.2: 130 (1772).

(Daşkın et al., 2006)

W. Anatolia. **A2(A)** Bursa: Uludağ: İnegöl, alongside Kıran plateau, 1700 m, 20.vii.2004, G.Kaynak, R.Daşkın 20390 & Ö.Yılmaz (BULU); Bursa: Uludağ Natural Park, between Softaboğan stream and Yörükmezarlığı, 1750 m, 05.viii.2004, G.Kaynak 23195 (BULU).

**Jurinea** Cass. (5: 439)

**\*J. cypria** Boiss., Fl. Orient., Suppl., 311 (1888).

(Greuter & Raus, 2002)

S. Anatolia. **C4** Mersin: Mut, high plateau of Kozlar, valley of Ayt river, in limestone cliff, alt. 1380 m, 20.vii.1999, Everest 882 (hb. Univ. Mersin).

**Onopordum** L. (5: 356)

**\*O. canum** Eig in Palestine J. Bot., Jerusalem Ser. 2: 193 (1942).

(Greuter & Raab-Straube, 2005)

S.E. Anatolia. **C6** Urfa: c. 10 km N of Birecik, Wadi, Strassenrand, 380 m, 25.v.1983, Sorger 83-6-2 (W).

☐ **Psephellus** Cass. (previously *Centaurea*)

e **\*\*P. turcicus** A.Duran et Hamzaoğlu in Bot. J. Linn. Soc. 148: 496-499 (2005).

(Duran & Hamzaoğlu, 2005)

Type: (Turkey) **A5** Yozgat: Aydıncık, Kazankaya town, Kazankaya Canyon passes, 750-950 m, crevices of limestone rocks, 28.vi.2000, A.Duran 5461 & Hamzaoğlu (holo. KNYA; iso. GAZI, ANK, HUB, GOET).

**Ptilostemon** Cass. (5: 415)

**P. gnaphaloides** (Cyr.) Sojak in Novit. Bot. Del. Sem. Horti Bot. Univ. Carol. Prag 1962: 46 (1962).

\*subsp. **pseudofruticosus** (Pomp.) Greuter in Candollea 24: 48 (1969).

(Tuzlacı, 2005)

S.W. Anatolia. **C1** Muğla: Bodrum; Türkbükü köyünün çevresi, Türkbükü koyunun kuzeybatısı, deniz kıyısındaki yamaçlar, 20 m, 24.iii.2000, E.Tuzlacı, MARE 6185.

☐ **Rhaponticoides** Vaill. (previously *Centaurea*)

e **\*\*R. hierroi** Ö.Eren in Plant Systematics and Evolution 267: 15-17 (2007).

(Eren, 2007)

Type: (Turkey) **C3** Antalya: between Antalya and Saklıkent road, below Bakacak pass. Boyunduruk 1100 m, rocky slope, open *Pinus brutia* Ten. forest, limestone, 17.vii.2004, Eren 252/04 & Şirin (holo. AYDN; iso. B, E, GAZI, HUB).

**Senecio** L. (5: 145)

e **\*\*S. salsuginea** H.Duman et Vural in Belgian Jour. Bot. 139: 254 (2006).

(Vural et al., 2006)

Type: (Turkey) **B4** Konya: Gölyazı, around Tersakan Gölü, 950 m, 25.x.1999, salt steppe Duman 7084 & F.A.Karavelioğulları (holo. GAZI; iso. ANK, HUB, Hb. YILDIRIMLI).

**\*S. sylvaticus** L. in Sp. Pl. 2: 868. (1753).

(Greuter & Raus, 1995)

European Turkey **A2 (E)**: Istanbul, km 9 from Binkılıç, in a forest clearing, 350 m, 04.vii.1974, A.Baytop (ISTE 30188).

☐ **Tephrosia** (Rchb.) Rchb. (previously *Senecio*)

**\*T. cladobotrys** (Ledeb.) Griseb. et Schenk, Wiegmann. Archiv. 18 (1): 343 (1852).

(Budak et al., 2007)

N.E Anatolia. **A8** Artvin: Borçka, Balcı, Kayadibi, 1710 m, 17.vii.1977, Düzenli 964 (HUB); **A9** Ardahan: Yalnızçam Plateau, Katmerlikaya, 2300 m, 19.viii.1984, Demirkuş 2756 (HUB); **A9** Ardahan: from Şavşat to Ardahan, Yalnızçam Mountains, Çam Pass, below Kocabey Plateau, Budak 1951, Hamzaoğlu & Aksoy (herb. BOZOK).

## CRASSULACEAE

*Sempervivum* L (4:244)

e \*\**Sempervivum* × *feigeanum* Neeff in *Kakteen Sukk.* 56: 72 (2005).

(Neeff, 2005)

(*Sempervivum davisii* Muirhead × *Sempervivum staintonii* Muirhead)

Type: (Turkey) **A8** Rize, Kaçkar Dağları, Yusufeli to Sarıgöl, 927 m, 24.vii.2003, Neeff H073. (holo. E).

e \*\**S. herfriedianum* Neeff in *Kakteen Sukk.* 56: 71 (2005).

(Neeff, 2005)

Type: (Turkey) **A8** Rize: Kaçkar Dağları, Yusufeli to Sarıgöl, 2086 m, 24.vii.2003, Neeff H075. (holo. E; iso. K, HUB).

## CRUCIFERAE (1: 248)

*Alyssum* L. (1: 362)

\**A. idaeum* Boiss. et Heldr. Boiss. Diagn. Pl. Or. Nov. 2 (8): 35 (1849)

(Orcan & Binzet, 2006)

S. Anatolia. **C5** Mersin: Yeniköy entrance, 28.iv.2003, R. Binzet AK-781; 11.v.2003, R. Binzet AK-782.

e \*\**A. mughlai* Orcan in *Nordic J. Bot.* 23: 703-705 (2006).

(Orcan, 2006)

Type: (Turkey) **C2** Muğla: Marmaris-Muğla, 10 km to Marmaris, 52 km to Muğla, roadside, serpentine, 100 m, 06.v.1993, N.Orcan 750 (holo. Hb of Mersin University).

■ *Asperuginoides* Rauschert

\**A. axillaris* (Boiss. et Hohen.) Rauschert in *Taxon* 31 (3): 558 (1982).

(Bani & Adıgüzel, 2006)

E. Anatolia. **C9** Van: Çatak, Dalbastı village, around Şeytan deresi, 1320 m, 16.v.2004, B. Bani 2644.

*Barbarea* R. Br. (1: 433)

*B. brachycarpa* Boiss. Diagn. ser. 1 (5): 80 (1844).

subsp. *minor* (K.Koch) Parolly & Eren

e \*\*var. *pilicarpa* Parolly et Eren in *Willdenowia* 36: 832 (2006).

(Parolly & Eren, 2006)

Type: (Turkey) **C3** Antalya: Beydağları, Feslikan Yaylası above Geyikbayırı, 1800-1900 m, doline with Trifolio-Polygonetalia community, 10.v.2006, Eren 54/6 (holo. AYDN; iso. B, E, EGE, GAZI, HUB, hb. Parolly)

*B. brachycarpa* Boiss. Diagn. ser. 1 (5): 80 (1844)

e \*\*var. *ilicifolia* Parolly, Nordt et Eren in *Willdenowia* 36: 828 (2006).

(Parolly & Eren, 2006)

Type: (Turkey) **C3** Konya: kurz nach der Abzweigung von der Hauptstrabe Manavgat-Seydişehir in Richtung Bozkır, 1460 m, offener Serpentinhang, Exp. NE, 30.vi.2003, Ulrich 3/10 (holo. B; iso. AYDN, GAZI, hb Parolly).

*Hesperis* L. (1: 452)

e \*\**H. kuerschneri* Parolly et Kit Tan in *Willdenowia* 36: 851-854 (2006).

(Parolly & Tan, 2006)

Type: (Turkey) **C2** Denizli: Fethiye-Çameli, N Fethiye, unterhalb des (below) Tuzla Beli, 1300 m, Serpentinhang (serpentine slope), SE-Exp., 7.v.2002, Ulrich 2/1 (holo. B; iso. C, hb. Parolly).

e \*\**H. turkmendaghensis* A.Duran et A.Ocak in *Bot. J. Linn. Soc.* 147: 240-242 (2005).

(Duran & Ocak, 2005)

Type: (Turkey) **B3** Eskişehir: Türkmendağı, Efsunbaba tepesi, 1650 m, 01.vi.2003, A.Ocak 3482 (holo. KNYA; iso. ANK, E., GAZI, HUB, Osmangazi University Hb.).

*Iberis* L. (1: 309)

\**I. saxatilis* L., *Cent. Pl.* 2: 23 (1756).

(Dirmenci et al., 2005)

**B1** Balıkesir: İter trojanum, Mt. Ida in marmar, mont. Szus-Dagh, 17.vii.1883, P.Sintenis (photo). Kazdağ (İda), Nanekırı, limestone, 1500 m, 19.v.2004, T.Dirmenci (2516 a) & F.Satıl (GAZI, HUB, Yıldırım) ibid 05.vi.2004, T.Dirmenci (2523) & F.Satıl (EGE), ibid Zığındere valley, limestone, 1600 m, 19.v.2004, T.Dirmenci 2516 b) & F.Satıl (ANK), Susuz dağ-Kuştepe, 1500 m, 02.vii.2004, T.Dirmenci (2872 b) & F.Satıl (Hb. T.Dirmenci).

*Lepidium* L. (1: 279)

\**L. pinnatifidum* Ledeb., *Fl. Ross.* 1: 206 (1842).

(Ünal et al., 2007)

Type: Russia, Hab. In regione Astrachanensi, Blume, LE.

N.E. Anatolia. **B9** Muş: Bulanık, North-west of Şatırlar village, around Kırmızı Tuzla, saline places, 03.vi.2006, L.Behçet & F.Özgökçe and M.Ünal (LFM 742 in flower), 05.vi.2006 (LFM 792-in fruit).

■ **Leptaleum** DC.

\***L. filifolium** (Willd.) DC., System. Veg. 2: 510 (1821).

(Ünal & Özgökçe, 2007)

Syn.: *Sisymbrium filifolium* Willd., Sp. Pl. Ed. 4, 3: 495 (1800).

Type: Habitat in Sibiria ad Kumam fluvium, B.

N.E. Anatolia. **A9** Kars, Halıkışlak village, around River Aras, sandy banks, 06.v.2006, M.Ünal & F.Özgökçe 9295 (VANF).

**Malcolmia** R. Br. (1: 460)

\***M. exacoides** (DC.) Spreng., Syst. Veg.Ed. 16: 2: 899 (1825).

(Özgökçe & Ünal, 2007)

Type: in Libano loco dicto Zaale, Labillardiere.

S.E. Anatolia. **C9** Siirt: Siirt to Şırnak, 30 km, around River Dicle, steppe and fields, 11.iii.2006, F.Özgökçe & M.Ünal 9138 (in flower); 14.iv.2006, F.Özgökçe & M.Ünal 9149 (in fruit).

**Matthiola** R. Br. (1: 447)

e \*\***M. trojana** T.Dirmenci, F.Satıl et G.Tümen in Bot. J. Linn. Soc. 151: 431-433. (2006).

(Dirmenci et al., 2006)

Type: (Turkey) **B1** Balıkesir: Edremit, Kazdağ (İda), Nanekırı place, rocky slopes, limestone, 1550 m, 5.vi.2004, T.Dirmenci (2522) & F.Satıl (holo. ISTE; iso. ANK, EGE, GAZI).

□ **Noccaea** Moench (previously *Thlaspi*)

e \*\***N. camlikensis** Aytaç, Nordt et Parolly in Bot. J. Linn. Soc. 150: 410-412 (2006).

(Aytaç et al., 2006)

Type: (Turkey) **C3** Konya: Derebucak, Çamlık village, Kızıldağ, 1400-1600 m, clearings in *Pinus nigra* forest, 6.vi.2000, Duman 7306 (holo. GAZI; iso. ANK).

**Physioptychis** Boiss. (1: 356)

e \*\***P. purpurascens** Çelik et Akpulat in Bot. J. Linn. Soc. 154: 393-395 (2007).

(Çelik et al., 2007)

Type: (Turkey) **B6** Sivas: Deliilyas district, serpentine, chalky steppe and slopes, 23.v.2004, Çelik 6232; Akpulat & Dönmez. (holo. CUFH; iso. ISTE).

■ **Stroganowia** Kar. et. Kir.

e \*\***S. leventii** V.I.Dorof. in Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 109: 72(2004).

(Dorofeyev et al., 2004)

Type: (Turkey) **B8** Erzurum ad meridiem 42 km ab Köprüköy, in parte superiore vallii Araks, 1800 m, 18.vi.2002, V.I. Dorofeev 999 (holo. LE).

**DIPSACACEAE** (4: 582)

**Cephalaria** Schröder ex Roemer et Schultes (4: 585)

e \*\***C. duzceensis** N.Aksoy et R.S.Göktürk in Nord. J. Bot. 25: 65-67 (2007).

(Aksoy et al., 2007)

Type: (Turkey) **A3** Düzce: Gölyaka, Elmacik mountain, Balikli area, behind of Konaş, Melik deresi, open rock area of *Pinus sylvestris* forest, on disturbed ground, 30.vii.2004, N.Aksoy 5339 (holo. ISTO; iso. GAZI, AIBO, AKDU).

**C. gazipashensis** H.Sümbül in Edinb. J. Bot. 48: 33. f.3 (1990)

e \*\*subsp. **pilifera** Parolly, Kürschner et Eren in Willdenowia 37: 247-249 (2007).

(Parolly & Eren, 2007)

Type: (Turkey) **C4** Antalya: Alanya, slopes of Akdağ (2461 m), between Şekerkahve and Gökbel Yaylası, 1100-1300 m, oak forest, limestone and dolomite, 12.vii.2000, Eren & Parolly 7947 (holo. B; iso. AYDN, E, Hb. Parolly).

e \*\***C. tuteliana** S.Kuş et R.S.Göktürk in Nordic J. Bot. 23: 427-429 (2005).

(Kuş & Göktürk, 2005)

Type: (Turkey) **A2(E)** İstanbul: Kiraç, Bahçeşehir, north-west slopes, clearing macchie scrub, 10.ix.1997,



S.Kuş et al., ISTF 37158 (holo. ISTF; iso. AKDU, ISTE, HUB, GAZI).

*Lomelosia* Raf. (= *Scabiosa* sect. *Trochocephalus* Mert. & Koch).

e \*\**L. solymica* Parolly, Ö.Eren et Nordt in *Willdenowia* 35: 108-110 (2005).

(Parolly et al., 2005)

Type (Turkey) **C3** Antalya: Tahtalı Dağı, SW Kemer, ascent from Beycik, vertical limestone cliffs, 6.viii.2004, Eren 387/04 & Taylan (holo. Hb. Adnan Menderes University; iso. B, E, GAZI, HUB, hb. Parolly).

#### FAGACEAE (7: 657)

*Quercus* L. (7: 659)

*Q. trojana* P.B.Webb in London, Gard. Mag. 15: 590 (1839)

e \*\*subsp. *yaltirikii* Ziel., Petrova et D.Tomaszewski in *Willdenowia* 36: 846-848 (2006).

(Zielinski et al., 2006)

Type: (Turkey) **C5** İçel: between Hacı Ahmetli and Çukurbağ, just near Çukurbağ, 18-20 km NNE of Mut, 1200 m, stony-clayey slope, edge of *Pinus brutia* forest, 31.v.1991, Boratynski, Browicz & Zieliski 6863 (holo. KOR).

Paratypes: (S Turkey), **C4/5** İçel: near Abanoz, by the road to Ermenek, small meadow among rocks, 29.v.1991, Boratynski, Browicz & Zielinski 6780 (KOR 31026); Boratynski, Browicz & Zieliski 6780 (KOR 25063); **C2/3** Antalya, Geyik Dağları, 1500 m, *Abies cilicica*-*Pinus nigra* forest on calcareous rocks, frequently, 5.viii.2005, Boratynski & Boratynska TU-05/32 (B, KOR 44631).

#### GERANIACEAE (2: 450)

*Geranium* L. (2: 451)

e \*\**G. kalenderianum* A.İlçim et L.Behçet in Ann. Bot. Fennici 43: 451-453 (2006).

(İlçim & Behçet, 2006)

Type: (Turkey) **B6** Kahramanmaraş: Afşin, Tanır kasabası, Güvek Yaylası (high-land), Binboğa Dağı (Binboğa Mt.) rocky places, between rock clefts, 1915-

1950 m, 20.vi.2001, A.İlçim 1373 (holo. KSUH; iso. GAZI, VANF).

**GUTTIFERAE** (2: 355)

*Hypericum* L. (2: 355)

*H. saxifragum* Robson et Hub.-Mor. in Notes R.B.G. Edinb. 27: 194 (1967).

e \*\*subsp. *eglandulosum* Parolly et Eren in *Willdenowia* 36: 836-837 (2006).

(Parolly & Eren, 2006)

Type: (Turkey) **C3** Antalya: W Antalya, Antalya-Saklıkent road, 300 m, vertical limestone cliffs, E-exp., 15.ix.2004, Ulrich 4/28 (holo. hb. Parolly).

#### LABIATAE (7: 36)

*Calamintha* Miller (7: 323)

*C. pamphylica* Boiss. et Heldr. in Boiss., Diagn. Ser. 1 (12) 52 (1853)

e \*\*subsp. *alanyense* S.Alan et Ocak in Ann. Bot. Fennici 44: 309-313 (2007).

(Alan et al., 2007)

Type: (Turkey) **C4** Antalya: Alanya, Kargı brook, rock crevices, 2.vii.2002, S.Alan 1005 (holo. ESSE; iso. GAZI, HUB, Hb. Osmangazi Univ.).

*Micromeria* Benth (7: 335)

e \*\**M. maritima* Yıldırımli, Sadıkoğlu et Keskin in Ot Sistematik Botanik Dergisi, 13: 29-30 (2006).

(Yıldırımli et al., 2006)

Type: (Turkey) **C2** Muğla: Marmaris vegetation, near coast, c. 5 m, 23.vii.1983, Ş.Yıldırımli 5647 (holo. Hb. Yıldırımli; iso. GAZI).

\**M. persica* Boiss., Diagn. Pl. Or. Nov. Ser. 1, 7: 48 (1846)

(Keskin & Sadıkoğlu, 2007)

S. Anatolia. **C6** Hatay: Antakya, Habib-i Neccar Mountain, slopes, 28.vi.2004, N.Sadıkoğlu, ISTE 81697 ibid., 31.vii.2005, N.Sadıkoğlu & M.Keskin 4470, ISTE 83175., St. Pierre s church, 31.vii.2005, N.Sadıkoğlu & M.Keskin 4455, ISTE 83192.

*Nepeta* L. (7: 264)

*N. sibthorpii* Benth. Lab. Gen. Sp. 474 (1834)

e \*\*subsp. *tumeniana* T.Dirmenci in Bot. J. Linn. Soc. 147: 229-232 (2005).

(Dirmenci, 2005)

Type: (Turkey) **B1** Balıkesir: Edremit, Kazdağı (İda), Dökük, rocky slopes, 1300 m, 10.vii.1999, T.Dirmenci 1024 (holo. GAZI; iso. ANK, EGE, HUB, ISTE).

*Phlomis* L. (7:102).

e \*\**P. dinci* Yıld. in Ot Sist. Bot. Dergisi 13: 3 (2006) (Yıldırımli, 2006)

Type: (Turkey) **B6** Malatya: Doğanşehir, Eskiköy, between Çoban deresi-ihtiyar mağarası, *Quercus-Juniperus excelsa* forest, 1600-1800 m, 25.vii.1971, H.Peşmen 2683 (holo. HUB).

e \*\**P. isiliae* Yıld. in Ot Sist. Bot. Dergisi 13:3(2006) (Yıldırımli, 2006)

Type: (Turkey) **B7** Tunceli: Ovacık, above Tornova, Munzur dağları, 1100-1450 m, 26.vii.1979, Ş.Yıldırımli 2127 (holo. HUB; iso. GAZI).

*Salvia* L. (7: 400)

e \*\**S. anatolica* Hamzaoğlu et A.Duran in Ann. Bot. Fennici 42: 216-218 (2005)

(Hamzaoğlu et al., 2005)

Type: (Turkey) **B7** Sivas: 22 km from Divriği to Kemaliye, 1580 m, 30.v.2003 A.Duran 6159, Hamzaoğlu & Sağıroğlu (holo. KNYA; iso. GAZI, ANK, HUB, hb. YILDIRIMLI).

*Stachys* L. (7: 199)

e \*\**S. yıldırımlii* M.Dinç in Ann. Bot. Fennici 43: 143-145 (2006)

(Dinç & Doğan, 2006)

Type: (Turkey) **C5** Mersin: Arslanköy, Cocakdere, *Cedrus libani-Pinus nigra* forest, clearings, rocky slopes, crevices of limestone rocks, 1950 m, 15.vi.2004 M.Dinç 2150 & H.H.Doğan (holo. KNYA; iso. GAZI).

*Teucrium* L. (7: 53)

\**T. chasmophyticum* Rech.f., Pl. Syst. Evol. 134: 287 (1980)

(Dönmez, 2006)

E. Anatolia. **C9** Siirt: Erüh, above Gölgekonak village, *Quercus brantii* opening, limestone crevices, 19.vi.2005, AAd 121-19-1. Al-Shehbaz & M.Menke.

e\*\* *T. microphyllum* Desf. in Ann. Mus. Par. x. 300 (1807).

(Greuter & Raus, 2006)

SW Turkey: Datça Peninsula

e \*\**T. pseudaroanum* Parolly, Erdağ et Nordt, in Willdenowia 37: 252-257 (2007).

(Parolly & Eren, 2007)

Type: (Turkey) **C2** Antalya: Kasaba, SE Dirgenler, Schlucht des (gorge of) Demre Çayı, 140 m, Kalkfelsen (Marmor) (limestone rock marble), NW-exp., 24.iv.2006, Ulrich 6/5 (holo. B; iso. AYDN, hb. Parolly).

LEGUMINOSAE (3: 1)

*Astragalus* L. (3: 49)

e \*\**A. babacianum* A.S.Ertekin in Ann. Bot. Fennici 43: 291-293 (2006)

(Ertekin, 2006)

Type: (Turkey) **C8** Mardin: Mazıdağı, Mazıdağı to Derik 6 km, 970 m, fields, 15.iv.2004, A.S.Ertekin 2004-126 (holo. DUF).

e \*\**A. friederikeanus* Kit Tan & Zeitl. in Wulfenia 14: 133 (2007).

(Tan & Zeitlinger, 2007)

Type: (Turkey) **C4** Konya: dry south-facing slopes of Sertuval-Gedici, roadside steppe south of Karaman, c. 1080 m, 27.v.1988, J.Zeitlinger 4126 (holo. KL; iso. Hb. Kit Tan).

e \*\**A. nezaketae* A.Duran et Aytaç in Ann. Bot. Fennici 42: 381-385 (2005)

(Duran & Aytaç, 2005)

Type: (Turkey) **A8** Erzurum: Erzurum-İspir yolu 50. km, Eğerti köyü, Kelkaya mevki, step, 2000-2200 m, 19.vii.1990, H.Duman & Z.Aytaç 3195 (holo. GAZI; iso. KNYA).

*A. pinetorum* Boiss. Diagr. zedb 1 (2): 77 (1843).

e \*\*subsp. *multifolius* Akpulat et Çelik in Bot. J. Linn. Soc. 155: 227-229 (2007)

(Akpulat & Çelik, 2007)

Type: (Turkey) **B6** Sivas: Topçuyeniköy district, steppe, 1450 m, 27.vi.2004, Çelik 7025 & Akpulat (holo. CUFH; iso. ISTE).

\***A. wagneri** Bunge, in Mem. Acad. Imp. Sc. Petersb. 15 (1): 125 (1868)

(Ekici et al., 2005)

E. Anatolia. **B10** Ağrı: Doğubeyazıt, around Tavla village, steppe, 2400 m, 15.vii.2002, M.Ekici 3179, Z.Aytaç & H. Akan (GAZI).

e \*\***A. turkmenensis** Dural, O.Tugay et Ertugrul in Ann. Bot. Fennici 44: 399-401 (2007)

(Dural et al., 2007)

Type: (Turkey) **C4** Konya: Karapınar-Hotamış arası, Kamişaçılı köyü çevresi, step, 1050 m, 18.v.2003 Ertuğrul 2764, O.Tugay, Dural, Uysal & Demirelma (holo. KNYA; iso. GAZI, K).

**Chamaecytisus** Link (3: 16)

\***C. jankae** (Velen.) Rothm.

(Vladimirov et al., 2006)

European Turkey. **A2(E)** Istanbul: grassy places around Constantinopol (Istanbul), Bijuk-Han station, 16.v.1915, coll. B.Davidov (SOM 43786).

**Genista** L. (3: 24)

**G. januensis** Viv. Elench. Pl. Horti Bot. 19 (1802).

\*subsp. **januensis** in Ann. Bot. Fennici 41: 455-456 (2004).

(Zielinski et al., 2004)

**G. spatulata** Spach, Ann. Sci. Nat. Bot. Ser. 3: 128. 1845.

Syntypes: [NW Turkey] "in Olympo Bithynico (Uludağ) et prope Byzantium", Aucher-Eloy (P). NW and W Anatolia

**Lupinus** L. (3: 38)

**L. angustifolius** L. Sp. Pl. 722 (1753).

\*subsp. **reticulatus** (Desv.) Coutinho in Fl. Port. 315 (1913).

(Özen & Aka, 2007)

W. Anatolia. **B1** Balıkesir; Ayvalık, Sarımsaklı (Küçükköy), Badavut, military coastal zone, 0 m, 19.05.2003, F.Özen 1736.

**Onobrychis** Adanson (3: 560)

**O. alba** (Waldst. & Kit.) Desv., Jour. Bot. Appl. 3: 83 (1814).

\*subsp. **calcareia** (Vandas) P.W. Ball, Feddes Repert. 79, 41 (1968).

(Vladimirov et al., 2007)

European Turkey **A1(E)** Edirne: Sinanköy village, in the meadows, 14.vi.2007, M.Aybeke, C.Kurt & A.Semerci (EDTU 9506), Centre: Budakdoğanca village, meadows, 14.vi.2007, M.Aybeke, C.Kurt & A.Semerci (EDTU 9507).

\***O. meschetica** Groshh. in Flora U.R.S.S., vol. XIII, p.554 (1948).

(Aktoklu, 2001)

Type: (S. Transcaucasus) prope Borzhomi, 2.vi.1865, Radde 35 (LE).

N.E. Anatolia. **A9** Kars: Posof, Binbaşı Eminbey-Yurtbeyler köyü arası, yolboyu korunmuş alanlar, 1500-1900 m, 5.viii.1982, N.Demirkuş-1805 (HUB, Hb. Mustafa Kemal University).

**Trifolium** L. (3: 384)

**T. tumens** Stev. et Bieb. Fl. Taur.-Cauc. 2: 217 (1808).

\*var. **talychense** (Chalilov) Zoh. in Israel J. Bot. 19: 322 (1970).

(Keskin, 2005)

S. Anatolia. **C6** Osmaniye: Zorkun yaylası, *Pinus nigra* orman altı, Amanos dağı, 14.vi.1968, c. 1400 m, Y.Akman ANK 7846.

\***T. vavilovii** Eig. in Bull. Appl. Pl. Breed. (Leningrad) 7, 1: 108 (1934).

(Keskin, 2005)

E. Anatolia. **B7** Malatya: Kubbe dağı eteği, Köpekli köyü, Pötürge yolu üzeri, çayır, 1300 m, 22.vi.1982, Y.Altan, ANK 2650.

**Trigonella** L. (3:452)

e\*\* **T. velutinoides** Hub.-Mor. in Bauhinia 4: 197 (1971).

(Huber-Morath, 1971)

Type: (Turkey) **C4** Konya: Karaman, Karaman-Ermenek, Quercetum 34 km nach Karaman, 1300 m, 8.vi.1948, Huber-Morath 8197; do., Steppe 15 km nördlich von Karaman, an der Strasse nach Konya, 1030 m, 7.vi.1969, Ch.Simon 69-983 (holo. Hb. Simon; iso. Hb. Hub.-Mor.).

**MALVACEAE (2:401)**

**Alcea L. (2: 411)**

e \*\***A. karsiana** (Bordzil.) Grossg. in Zhurn. Russk. Obshch. VII (1922) 1924.

(Greuter & Raus, 1989).

Type: (Turkey) **A9** Kars: Ardahan, Karaorgan and Karakurt. (holo.LE).

\* **A. sophiae** Iljin in Zametki Sist. Geogr. Rast. 15: 42, (1949).

(Greuter & Raus, 1989)

E. Anatolia. **A9** Kars: Sürmeli and Karakale. (holo. Leningrad Herbarium (LE)).

**PLANTAGINACEAE (7:504)**

**Plantago L. (7:505)**

**P. uliginosa** F.W.Schmidt

\*subsp. **mandakii** Chrtek in as. Nár. Muz. Praze, Rada P ír. 173: 89 (2004)

(Chrtek, 2004)

C. Anatolia **B5** Kayseri: Secundum viam sub cacumine montis Erciyes Dagı, prope campum, prope oppidum Kaiseri, c. 3000 m, 20.ix.2000, B.Mandák (holo. PR 11860).

**PLUMBAGINACEAE (7: 463)**

**Acantholimon** Boiss. (7: 478)

**A. acerosum** (Willd.) Boiss., Diagn. Ser. 1 (7): 80 (1846).

e \*\*subsp. **longibracteolorum** Doğan et Akaydın in Bot. J. Linn. Soc. 154: 410-411 (2007)

(Doğan & Akaydın, 2007)

Type: (Turkey) **B3** Eskişehir: Sündiken Dağı, 400-500 m, 22.vi.1974, Ekim 923 (holo. ANK).

**A. calvertii** Boiss., Diagn. Ser.2 (4): 65 (1859).

e \*\*var. **glabrum** Akaydın et Dogan in Bot. J. Linn. Soc. 154: 403-404 (2007).

(Doğan & Akaydın, 2007)

Type: (Turkey) **A8** Erzurum: between Pasinler and Narman, Çimenli Yayla, 2160 m, 17.vii.2001, Doğan & Akaydın 6930 (holo. ANK).

**A. capitatum** Sosn., Monit. Jard. Bot. Tiflis 11: 11 (1915).

e \*\*subsp. **sivasicum** Dogan et Duman in Bot. J. Linn. Soc. 154: 401 (2007).

(Doğan & Akaydın, 2007)

Type: (Turkey) **B6** Sivas: Ulaş, between Kutlukaya and Boğazdere village, 1400-1500 m, serpentine, steppe, 7.vii.2003, H.Duman 8983 (holo. GAZI).

e \*\***A. ekimii** Dogan et Akaydın in Bot. J. Linn. Soc. 154: 404 (2007).

(Doğan & Akaydın, 2007)

Type: (Turkey) **B9** Ağrı: between Akçay and Cumaçay, high mountain steppe, 2300 m, 18.vii.2001, Doğan & Akaydın 6962 (holo. ANK).

e \*\***A. evrenii** Doğan et Akaydın in Bot. J. Linn. Soc. 149: 352-353 (2005).

(Doğan & Akaydın, 2005)

Type: (Turkey) **B7** Elazığ: Palu, Yaylın Mountain, near Baltaş, steppe, 1500-1600 m, 29.vi.1983, H.Evren 1585 (holo. FUH).

**A. halophilum** Bokhari, Notes R.B.G. Edinb. 30: 297, fig.2 (B) (1970).

e \*\*var. **coloratum** Dogan et Akaydın in Bot. J. Linn. Soc. 154: 412 (2007).

(Doğan & Akaydın, 2007)

Type: (Turkey) **B4** Konya: between Cihanbeyli and Tuzla, near Tuz Gölü, 950 m, 21.vi.2002, Doğan & Akaydın 7398 (holo. ANK).

**A. huetii** Boiss., Fl. Or. 4: 835 (1879).

e \*\*var. **breviscapum** Akaydın et Dogan in Bot. J. Linn. Soc. 154: 404 (2007).

(Doğan & Akaydın, 2007)

Type: (Turkey) **B6** Kahramanmaraş: Göksun, above Keklikoluk, 2100 m, 9.vii.2001, Doğan & Akaydın 6808 (holo. ANK).

**A. lycanicum** Boiss.et Heldr. in DC., Prodr. 12: 627 (1848).

e \*\*subsp. **cappadocicum** Dogan et Akaydın in Bot. J. Linn. Soc. 154: 412-413 (2007).

(Doğan & Akaydın, 2007)

Type: (Turkey) **A4** Çankırı: Kalecik, Karabasan Da., 850 m, 21.viii.2000, Doğan and Akaydın 6474. (holo. ANK).

*Limonium* Miller (7:465)

e \*\***L. adilguneri** Yıld. & Doğru-Koca in Ot Sist. Bot. Dergisi 13: 13 (2006).

(Yıldırımli & Doğru-Koca, 2006)

Type: (Turkey) **B4** Aksaray: Eski, 15 km from Eski to Tuzgölü, c. 900 m, 24.ix.2006, .Yıldırımli & A.Doğru-Koca 32268 (holo. Hb. YILDIRIMLI; iso. K, HUB, GAZI).

#### RANUNCULACEAE (1: 95)

*Delphinium* L. (1: 108)

\***D. balcanicum** Pawl. in Fragm. Fl. Geobot. 9: 439 (1963).

(Dane & Ekici, 2006)

European Turkey. **A1(E)**: Tekirdağ, Edirne, Çanakkale Eceabat, Seddulbahir, 07.vii.1987, F.Dane (EDTU 1733); Edirne: Budak Doganca. 08.vii.1988, F.Dane (EDTU 2398); Edirne: Süleoğlu, road side, 14.vii.1988, F.Dane (EDTU 2469); Tekirdağ, Şarköy, road side, 15.vii.1988, F.Dane (EDTU 2573).

*Ranunculus* L. (1:146)

e \*\***R. anatolicus** Ü.Akkemik, E.Akalin & N. Özhatay in Nordic J. Bot. 25:311-313 (2007).

(Akkemik et al., 2007)

Type: (Turkey) **A9** Erzurum: Şenkaya-Karinca Düzü-Eşek Meydani Plateau, 2350 m, 26.vi.2002, Ü.Akkemik (holo. ISTO 29271; iso. ISTE 81440).

#### RESEDACEAE (1: 498)

*Reseda* L. (1: 499)

**R. germanicopolitana** Hub.-Mor. in Bauhinia 2: 300 (1965).

e \*\*subsp. **glabra** Karavel. et Vural in Israel J. Plant Sci. 54: 109-110 (2006).

(Karavelioğulları et al., 2006)

Type: (Turkey) **B5** Kırşehir: Çiçekdağı, sekili, Tuz tepesi, 900-950 m, 06.ix.1994, salt soil, H.Polat 1631 & F.A.Karavelioğulları (holo. GAZI; iso. ANK, HUB).

Paratypes: **B5** Kırşehir: Çiçekdağı, Küçüktefleğ-Sekili, 900 m, 18.ix.1994, salt soil, H.Polat 2003 &

F.A.Karavelioğulları, Kırşehir: Çiçekdağı, Küçüktefleğ, Çorakdere, 900 m, 05.viii.1995, salt soil, F.A.Karavelioğulları 2353 & H.Polat.

#### ROSACEAE (4: 1)

*Crataegus* L. (4: 133)

e \*\***C. christensenii** Dönmez in Bot. J. Linn. Soc. 155: 234-236 (2007).

(Dönmez, 2007)

Type: (Turkey) **C10** Hakkari: Şemdinli, Altınsu village, 4.4 km from Şemdinli to Yüksekova, among *Quercus* forest in the valley, 3.x.2001, A.A.Dönmez 10314 (fruiting material) (HUB).

e \*\***C. peshmenii** Dönmez in Bot. J. Linn. Soc. 155: 232-234 (2007).

(Dönmez, 2007)

Type: (Turkey) **C10**: Hakkari: 2.5 km from Şemdinli to Yüksekova, Altınsu village, among *Quercus* opening, 3.x.2001. A.A.Dönmez 10313 (holo. HUB; iso. EGE).

**C. rhipidophylla** Gand. Bull. Soc. Bot. France 18: 447 (1871).

e \*\*var. **kutahyaensis** Dönmez in Bot. J. Linn. Soc. 155: 237-238 (2007).

(Dönmez, 2007)

Type: (Turkey) **B6** Kütahya: Eskişehir road, 9.4 km, Ahmetoluk village, 23.viii.2001, A.A.Dönmez 9972 (holo. HUB).

e \*\***C. turcicus** Dönmez in Ann. Bot. Fennici 42: 62-64 (2005).

(Dönmez & Dönmez, 2005)

Type: (Turkey) **A9** Artvin: Ardanuç pasture of Yolüstü village, opening of the deciduous forest, 41°06 N, 42°11 E, 1800 m, 30.ix.2002, A.A.Dönmez 11150 (holo. HUB; iso. L.).

Paratype: (Turkey) **A9** Artvin, Ardanuç, pasture of Yolüstü village, opening of the deciduous forest, 21.vi.2003, A.Dönmez 11456 (HUB).

e \*\***C. yaltirikii** Dönmez in Bot. J. Linn. Soc. 148: 245-246 (2005).

(Dönmez, 2005)

Type: (Turkey) **C9** Şırnak: Beytüşşebap, above Günyüzü village, opening of deciduous forest, 28.ix.2002; A.A.Dönmez (cited as AAD) 11143 &



B.Mutlu; 18.vi.2003, A.A.Dönmez 11261; 26.v.2004, A.A.Dönmez 11922. **C9** Şırnak, Beytüşşebap, from Dağdibi village to main road, alongside the road, 26.v.2004, A.A.Dönmez 11912 (holo. HUB; iso. E, ISTO).

*Padus* Miller (4: 6)

*P. avium* Mill. Gard. Dict. Ed. 8: no 1 (1768).

\*subsp. *petraea* (Tausch) Pawlowski ex Holub. in Preslia (Praha) 36: 251-255 (1964).

(Terzioğlu & Coşkunçelebi, 2005)

N.E. Anatolia. **A8** Trabzon, Uzungöl, Demirkapı Köyü, 2175 m, Terzioğlu, 24.vii.2004, KATO 13368, Arpaözü Köyü, 2250 m, Terzioğlu, 30.viii.1995, KATO 12064 & KTUB 506.

#### SAXIFRAGACEAE (4: 249)

*Saxifraga* L. (4: 249)

*S. adscendens* L.

\*subsp. *parnassica* (Boiss. et Heldr.) Hayek

(Tuzlacı & Bulut-Emre, 2006)

**A2(E)** Kırklareli: Kiyıköy, deniz kıyısındaki kayalıklar, **A2 (A)** İstanbul: Riva'nın 1 km doğusu, deniz kenarı (MARE 2661, MARE 4636).

#### SCROPHULARIACEAE (6: 458)

*Verbascum* L. (6: 461)

e **\*\*V. cicekdagensis** Karavel. et Vural in Israel J. Plant Sci. 54: 106-109 (2006).

(Karavelioğulları et al., 2006)

Type: (Turkey) **B5** Kırşehir: Çiçekdağı, between Küçükteflek and Sekili, 900 m, 18.v.1995, roadside, F.A.Karavelioğulları 2365 and H.Polat (holo. GAZI; iso. ANK).

Paratypes: **B5** Çiçekdağı, between Küçükteflek and Sekili, 900 m, 18.v.1994, calcareous stony slopes, roadside, F.A.Karavelioğulları 2103 and H.Polat; Çiçekdağı, between Ömeruşağı and Kalevci, 900-950 m, 19.v.1995, calcareous stony slopes, road-side, H.Polat 1994 and F.A.Karavelioğulları

e **\*\*V. lindae** Parolly et Kit Tan in Willdenowia 37: 279-281 (2007).

(Parolly & Tan, 2007)

Type: (Turkey) **C3** Isparta: Sütçüler, Eğirdir-Sütçüler, 16 km N of Çandır, 1 km SE of Sığırılık Köyü, W-facing limestone cliff, 860 m, 21.v.2003, Ulrich 3/4 (holo. hb. Parolly; iso. B, herb. Kit Tan).

**\*V. samniticum** Ten. Fl. Nap. 3: 219 (1824-1829).

(Yılmaz & Dane, 2006)

European Turkey. **A1(E)** Kırklareli: Pınarhisar: Kaynarca village, roadside, 27.vi.2002. G.Yılmaz & F.Dane (EDTU 9498).

e **\*\*V. yurtkuranianum** Kaynak, Daşkın et Yılmaz in Ann. Bot. Fennici 43: 457-459 (2006).

(Kaynak et al., 2006)

Type: (Turkey) **A2** Bursa: Gürsu, Gürsu-Ericek, entrance of Ericcek village, 4.vi.2003 G.Kaynak, R.(Günay) Daşkın, Ö.Yılmaz, E.Erdoğan 16079 (holo. BULU; iso. ANK, GAZI).

#### SOLANACEAE (6: 437)

■ *Scopolia* Jacq.

**\*S. carniolica** Jacq. obs. Bot. 1: 32 (1764).

(Başer et al., 2006)

N. E. Anatolia. **A8** Artvin: Borçka, Macahal

*Solanum* L. (6: 438)

**\*S. elaeagnifolium** Cav. Icon. Descr. 3: 22, tab.243 (1795).

(İlçim & Behçet, 2007)

S. Anatolia. **C6** Kahramanmaraş: Türkoğlu, around Fatih small town, Gavurgölü Marsh, 450-500 m, 10.vii.2006, A.İlçim 1632. (KSUH and VANF).

**\*S. sisymbriifolium** Lam. Tabl. Encycl. 2: 25. 1794. Turk J. Bot. 31: 1-3 (2007).

(Karaer & Kutbay, 2007)

North Anatolia. **A5** Amasya: vicinity of Bahçeleriçi along the valley S slopes, 400 m, 25.vii.1999, F.Karaer 8250, ibid. 20.ix.1999, F.Karaer 8900 (fruiting material), **A6** Samsun: between Toptepe and Directory of Forestry along the valley east-facing slopes, 50-100 m, 7.vi.1995, F.Karaer 6016 ibid. 18.viii.1995, F.Karaer 6495 (fruiting material).

#### UMBELLIFERAE (4: 265)

■ ■ *Dumiana* Yıldırımli & Selvi

(Yıldırımli & Selvi, 2006)

e \*\*D. *gelendostensis* Yıldırımılı & Selvi in Ot Sistematiik Botanik Der. 13: 5-6 (2006).

Type: (Turkey) B3 Isparta: Gelendost, Akdağ köyü, Kirişli or Çatalgöl dağı, from SE part of mountain to Çatalgöl, association of *Quercus coccifera*, 1000-1500 m, 12.vi.2002, B. Selvi 2420 (holo. Hb. YILDIRIMLI; iso. GAZI).

*Ferula* L. (4: 440)

e \*\*F. *coskunii* H.Duman et M.Sağiroğlu in Bot. J. Linn. Soc. 147: 357-359 (2005).

(Duman & Sağiroğlu, 2005)

Type: (Turkey) C6 Hatay: From Hatay to Yayladağı road, West of Şenköy, Ziyaret dağı, 1150-1200 m, clearing forest, calcareous rock, 2.ix.2002, H.Duman 8779 & C.S.Erdurak (holo. GAZI; iso. ANK, HUB, E).

e \*\*F. *mervynii* M.Sağiroğlu et H.Duman in Bot. J. Linn. Soc. 153: 357-360 (2007).

(Sağiroğlu & Duman, 2007)

Type: (Turkey) A8 Artvin: Yusufeli-Sarıgöl road, from Yusufeli 1-3 km, 650 m, 26.vii.2002, M.Sağiroğlu, 2207 & A.Duran (holo. GAZI; iso. ANK, HUB, Hb YILDIRIMLI, E).

\*F. *parva* Freyn et Bornm. in Öst. Bot. Zeitschr.42: 121 (1892).

(Sağiroğlu & Duman, 2006)

Inner Anatolia. B5 Kırşehir: between Yeşilyurt and Dağ çiftliği, 1400 m, 22.vi.1994, Hamzaoğlu 1553 (ADO); ibid., 29.vi.2001, M.Sağiroğlu 2241 (GAZI); Kırşehir: Çayağazı town, Höyüktepe, 1320 m, 29.vi.2001, M.Sağiroğlu 1723 (GAZI).

*Ferulago* W. Koch (4: 453)

e \*\*F. *glareosa* Kandemir et Hedge in Willdenowia 37: 273-275 (2007).

(Kandemir & Hedge, 2007)

Type: (Turkey) B7 Erzincan: Erzincan-Kemah, Sürek, 3.vi.2005, Kandemir 6901 (holo. E; iso. ANK, GAZI).

*Peucedanum* L. (4: 473)

e \*\*P. *longibracteolatum* Parolly et Nordt in Willdenowia 35: 98-101 (2005).

(Parolly & Nordt, 2005)

Type: (Turkey) C4 Antalya: Alanya, Mahmutlar-Taşkent, etwa 50 km NE Mahmutlar, Tal des Gökdere

Çayı nahe Çayarası, 1130 m, Steilhang, Exp. S, 1.vii.2003, Ulrich 3130 (holo. B; iso. hb. Parolly).

*Prangos* Lindley (4: 382)

e \*\*P. *ilanae* Pimenov, Akalin et Kljuykov in Candollea 60: 379-380 (2005).

(Pimenov et al., 2005)

Type: (Turkey) B1 Balıkesir: Zeytinli, Kazdağı, Mehmetalan village-Sarıkız summit, Ziindere, Girne pass, 800 m, 16.vii.1994, Özhatay & Byfield 70164 (holo. ISTE; iso. G, MW).

e \*\*P. *turcica* A.Duran, M.Sağiroğlu et H.Duman in Ann. Bot. Fennici 42: 69-71 (2005).

(Duran et al., 2005)

Type: (Turkey) C6 Osmaniye: between Yarpuz and Yağlıpınar, 1500-1700 m, under mixed forest, shady slopes, 13.ix.2003, A.Duran 6362 & M.Sağiroğlu (holo. GAZI; iso. KNYA, ANK, HUB).

URTICACEAE (7: 633)

*Urtica* L. (7: 633)

*U. dioica* L., Sp. Pl. 984 (1753).

\*subsp. *kurdistanica* Chrtek, Fl. Iranica 105: 3. 1974.

(Weigend, 2006)

Type: Iran, Kurdistan, Chehel Chashmeh, 44 km NE of Dezh-Shahpur (Merivan), ad rivulum, 2000 m, 7.7.1971, K.H.Rechinger 43026 (W 1972-00387).

Turkey: Cappadocia, Mt Argaeus (= Erciyas Dâgi), 2100 m, 19.6.1890, Bornmüller 2507 (B); [S Turkey, Taurus,] Iter Cilicicum in Tauri alpes Bulgar Dagh, in alpinis vallis Gusguta, 25.6.1853, T.Kotschy exs. Iter Cilicicum 7 (G-DC microfiche & scan).

\*subsp. *pubescens* (Ledeb.) Domin

(Weigend, 2006)

Turkey: Lydia, Mount Mesogis above Tire, 600-700 m, 14.6.1906, Bornmüller 9946 (B).

\*U. *fragilis* Thiébaud in Bull. Soc. Bot. France 82: 192. 1935

(Weigend, 2006)

Turkey: (Prov. Hatay, Amanus Mountains) "Bityas, été 1937", Delbés 81 (G).

ZYGOPHYLLACEAE (2: 491)

■ *Tetradiclis* Stev. ex M. Bieb.

\**T. tenella* (Ehrenb.) Litw., Trav. Mus. Bot. Acad. Petersb. 3: 122 (1907).

(Hamzaoğlu et al., 2005)

Type: (Egypt) Alexandria (1824). Ehrenberg (K; G, n.v.)

Inner Anatolia. **B5** Kırıkkale: Delice, around Tekel Tuzla İşletmesi; 650 m, salty areas, 2.vi.2002, Hamzaoğlu 2859 & A.Duran (ADO); Delice, Tekel Tuzlası, abandoned salt ponds, 19.v.2004, Hamzaoğlu 3569 & A.Duran (ADO, GAZI, ANK, HUB, KNYA, hb. Akhani, hb. YILDIRIMLI).

MONOCOTYLEDONES

ARACEAE (8: 41)

*Arum* L. (8: 43)

\**A. megobrebi* Lobin, M.Neumann, Bogner et P.C. Boyce in Willdenowia 37: 447-448 (2007).

(Lobin et al., 2007)

Type: Georgia, Imeretia, west side of Surami Mountains, near Chewi, W of street-tunnel, W of the pass, 25.v.2007, A.Gröger & W.Lobin (holo. TBI; iso. B, BM, BONN, E, FR, K, LE, M).

N.E. Anatolia. **A9** Artvin: above Çamli, 2420 m, 26.v.1990, M.Koenen 20\*90\*K (cult. in BG Bonn, accession number 8404-1-1990); Trabzon - Gümüşhane borders, between Kayaıçi Köy and Yağmudere, 1550 m, 14.vi.1991, V.Haller & M.Koenen 36\*91\*TR H\*K (cult. in BG Bonn, accession number 9824-1-1991).

CYPERACEAE (9:32)

*Carex* L. (9: 73)

*C. serotina* Méral

\*subsp. *serotina* Nouv. Fl. Env. Paris, ed. 22: 54 (1821).

(Greuter & Raus, 1999)

Inner Anatolia. **C4** Karaman: N side of Oyuklu Dağ N of Ermenek 24.vii.1992, Raab-Straube O 2-4 (B, hb. P. Hein, hb. Parolly, hb. Raab-Straube).

GRAMINEAE (9: 158)

*Arundo* L. (9: 561)

\* *A. mediterranea* Danin in Willdenowia 34: 362 (2004).

(Greuter & Raus, 2007)

Type: Israel, Nahal Sorek, 8 km east of Gedera, 18.9.2004, blooming culms from present year and previous year's culms with branches, Danin (holo.HUJ; iso. B, BEO, BM, E, G, K, MPU, PAL).

European Turkey. **A1** (E) Tekirdağ: 7 km E of Tekirdağ towards İstanbul, between the coastal road and the beach, 3.7.2007, Danin (B, HUJ, PAL).

*Glyceria* R. Br. (9:535)

e \*\**G. holubii* Tzvelev in Bot. Zhurn. (Moscow & Leningrad) 91:266 (2006).

(Tsvelev, 2006)

Type: (Turkey) **B7** Tunceli: Ovacik-Hozat, 2000 m, flush in oak scrub, 22.vii.1957, Davis a. Hedge N 31535 (holo. LE).

e \*\**G. lazistanica* Holub ex Tzvelev in Bot. Zhurn. (Moscow & Leningrad) 91: 264 (2006).

(Tsvelev, 2006)

Type: (Turkey) **A8** Rize: Khabakhor, vers 1800 m alt., 30.vii.1866, B.Balansa N 1554 (holo. LE; iso. LE).

*G. lithuanica* (Gorski) Lindm.

e \*\* var. *pontica* Tzvelev

Bot. Zhurn. (Moscow & Leningrad) 91:260 (2006). (Tsvelev, 2006)

Type: (Turkey) **A8** Rize: Khabakhor, 30.vii.1866, B.Balansa N 1555 (holo. LE; iso. LE).

*Poa* L. (9: 470)

\* *P. densa* Troitsky in Bull. Jard. Bot. Princ. URSS, xxvii. 619 (1928).

(Greuter & Raus, 2002)

S.W. Anatolia. **C2** Denizli: Honaz Dağı, summit region, 19.vi.2000, Eren & Parolly 7481 (B, ISTE, herb. Parolly); ibid., steep, open, scree-rich limestone swards on raw soil (Astragalo-Brometalia), alt. 2550 m, 20.6.2000, Eren & Parolly 7514 (B, herb. Parolly); ibid., ascent from Honaz to the summit region, 23.6.2000,

Eren 3048 & Parolly (AKDU, GAZI) **C3** Antalya: Bakırlı Dağı above Saklıkent, rocky slopes, thorny cushion and dwarf shrub communities, alt 2200-2550 m, 24.7.1998, Eren 6507 (AKDU, B, herb. Parolly); id., **C3** Isparta: Eğirdir, Barla Dağı, lateral summit above Çamdağı, 30.6.2000, Eren 3342 & Parolly (AKDU, B).

\* *P. maroccana* Nannf. in Svensk Bot. Tidskr. 1938, xxxii. 296.

(Greuter & Raus, 1998)

W. Anatolia. **C1** Muğla: Bafa-Gölü/Besparmak Dağı (Latmos-Gebirge), Kaprikiri, Ruinenstätte Herakleia am Latmos, alt. c. 150 m, 17.iii.1998, Kürschner & Parolly 98-26 (B, hb. Parolly).

*Secale* L. (9: 255)

*S. segetale* (Zhuk.) Roshev.

\* subsp. *segetale* Trudy in Bot. Inst. Akad. Nauk S.S.S.R., Ser. 1, Fl. Sist. Vyssh. Rast. 6: 143 (1947).

(Greuter & Raus, 2002)

E. Anatolia. **A9** Erzurum: E of Horasan, road verge in abandoned agricultural area.

*Setaria* P. Beauv. (9.597)

\**S. pallide-fusca* (Schumach.) Stapf. et Hubb.

(Başak & Guler, 2006)

European Turkey. **A1(E)** Edirne: Trakya University Güllapoğlu Campus, grassy places, R. 50, 01.ix.2001, EDTU 9617.

**IRIDACEAE** (8: 381)

*Crocus* L. (8: 413)

*C. biflorus* Miller, Gard. Dict. ed. 8 no.4 (1768).

e \*\*subsp. *caelestris* Kerndorff et Pasche in Linzer biol. Beitr. 38: 179-181 (2006).

(Kerndorff & Pasche, 2006)

Type: (Turkey) **B2** Uşak: surrounding areas of the city of Uşak, 1200-1400 m, 13.iii.2004, HKEP 0409 (holo. LI).

*C. biflorus* Miller, Gard. Dict. ed. 8 no.4 (1768).

e \*\* subsp. *caricus* Kerndorff & Pasche in Linzer Biol. Beitr. 36:7(2004).

(Kerndorff & Pasche, 2004)

Type: (Turkey) **C2** Muğla: Batı Menteşi dağları, 900-1200 m, HKEP 0307, 14.iii.2003 (holo. LI).

*C. biflorus* Miller, Gard. Dict. ed. 8 no.4 (1768).

e \*\* subsp. *ionopharynx* Kernd. & Pasche in Linzer Biol. Beitr. 36:6(2004).

(Kerndorff & Pasche, 2004)

Type: (Turkey) **C2** Muğla: Batı Menteşi dağları, 800-1200 m, HKEP 0306, 14.iii.2003 (holo. LI).

*C. biflorus* Miller, Gard. Dict. ed. 8 no.4 (1768).

e \*\*subsp. *yataganensis* Kerndorff et Pasche in Linzer biol. Beitr. 38:178-179 (2006).

(Kerndorff & Pasche, 2006)

Type: (Turkey) **C2** Muğla, Doğu Menteşe Dağları, 1000-1200 m, 18.iii.2004, HKEP 0402 (holo. LI).

*Gladiolus* L. (8: 441)

e \*\**G. attilae* Kit Tan, B.Mathew et A.Baytop in Phytologia Balcanica 12: 71-73 (2006).

(Tan et al., 2006)

Type (Turkey) **B7** Elazığ: on 22.vi.1991, A.Baytop ISTE 62995 (holo. ISTE; iso. K)

*Iris* L. (8: 382)

e \*\**I. celikii* Akpulat et K.I. Chr. in Nordic J. Bot. 24: 207 (2006).

(Christensen & Akpulat, 2006)

Type: (Turkey) **B6** Sivas: along the road from Celalli to Hafik, approx. 1 km before the village of Hafik, 4.iv.2003, Akpulat 3205 (holo. C; iso. CUFH).

e \*\**I. nezahatiae* Güner et H.Duman in Turk J. Bot. 31: 311-313 (2007).

(Güner & Duman, 2007)

Type: (Turkey) **A8** Artvin: Yusufeli, Kılıçkaya (Ersis) yukarısı [above Kılıçkaya (Ersis)], A.Güner 14024-M.Johnson, M.Öztekin, R.Unwin, P.Ravenhill, NGBB accession 2006-401 (holo. Hb. of NGBB; iso. GAZI).

*I. reticulata* M. Bieb.

e \*\*var. *kurdica* Rukšāns in Buried Treasures 363 (2007).

(Rukšāns, 2007)

Type: (Turkey) **B9** Van: 27 km south of Bashkale, 60 km before Hankari, 27.v.2004, Rukšāns, Seisums & Zetterlund BATM 04-118 (holo. GB).

LILIACEAE (8: 67)

*Allium* L. (8: 98)

e \*\**A. antalyense* Eren, Çinbilgel et Parolly in *Willdenowia* 37: 259-265 (2007).

(Parolly & Eren, 2007)

Type (Turkey) **C3** Antalya: Teke Dağı, ascent to summit region from Belen Yayla (above Akçağal village), gappy *Elytrigia divaricata* swards with thorn-cushions, limestone, 13.7.2004, Eren 272/04 & Çingibel (holo. AYDN; iso. B, GAZI, hb. Parolly).

*A. circinnatum* Sieber

e \*\*subsp. *evae* R.M.Burton in *Ann. Musei Goulandris* 11: 81-83 (2006).

(Burton, 2006)

Type: (Turkey) **C2** Muğla: SE of Ölüdeniz, near road to Kadak, E.Pirie s.n., iv.1992 (holo. BM).

*Bellevalia* Lapeyr (8: 264)

e \*\**B. leucantha* K.Perss. in *Bot. J. Linn. Soc.* 150: 253-256 (2006).

(Persson, 2006)

Type: (Turkey) **B7** Elazığ: Kuruca pass 35 km W of Bingöl in grass in very wet meadow near melting snow, 2000 m, 23.v.1998, Sönderhausen 1100 (holo GB).

*Colchicum* L. (8: 329)

e \*\**C. antepense* K.Perss. in *Bot. Jahrb. Syst.* 127: 169-171 (2007).

(Persson, 2007)

Type: (Turkey) **C6** Gaziantep: In apric. Calc. Aintab, Killis, 2-3000 ped. , I. 1867, Haussknecht 924 (holo. G; iso. FI, M, W, WU.-SC Turkey).

e \*\**C. chlorobasis* K.Perss. in *Edinb. J. Bot.* 62: 182-185 (2005).

(Persson, 2005)

Type (Turkey) **C4** Konya: SW of Sorkun (WSW of Bozkır), 1730 m, on limestone with *Juniperus*, *Berberis*, *Acantholimon*, *Astragalus*, and *Cyclamen cilicicum*, 1.x.1996, Kerndorff & Pasche 96-09 (holo.GB).

\**C. crocifolium* Boiss, *Diagn. Pl. Or. Nov. Ser.* 1, 5: 67 (1844).

(Akan & Eker, 2005)

S.E. Anatolia. **C7** Şanlıurfa: North of Direkli Hill, 19.i.2003, 640 m, rock slopes, Eker 274 & Akan; *ibid.*, 02.ii.2003, 726 m, Eker 278 & Akan.

e \*\**C. ignescens* K.Perss., in *Bot. Jahrb. Syst.* 127: 191-192 (2007).

(Persson, 2007)

Type: (Turkey) **C7** Şanlıurfa: Karacadağ, northern side, road to radar station, deep volcanic soil, 1650 m, 8.iv.1990, Kammerlander et al. 90-149 (holo. GB.)

e \*\**C. lagotum* K.Perss., in *Bot. Jahrb. Syst.* 127: 197-198 (2007).

(Persson, 2007)

Type: (Turkey) **B8** Erzurum: Çat to Bingöl, 73 km from Erzurum, 7 km before Cirisli Geçidi, steep unstable serpentine slopes, 1900 m, 1.vi.2004, Zetterlund et al. BATM 223 (holo. GB)

■ *Loncomelos* Raf., *Fl. tellur.* II/1:24 (1837).

e \*\**L. tardus* Speta in *Phyton* 46: 11 (2006).

(Speta, 2006)

Type: (Turkey) **C2/3** Antalya: Taurus, Montes Cebireis Dağı, prope pagum Gümüşkavak, 500-700m, cult. LI: 17.vi.2000, V.Vašák TO 229 (holo. LI).

*Merendera* Ramond (8: 351)

e \*\**M. figlalii* Varol in *Belg. Jour. Bot.* 138: 89-92 (2005).

(Varol, 2005)

Type: (Turkey) **C2** Muğla: Sandras Dağ, around Kartal Gölü, 1900-2100 m, 05.v.2001, serpentine rocks, open stony places, Varol 4016 (holo. MUĞLA; iso. GAZI).

*Muscari* Miller (8: 245)

e \*\**M. turcicum* Uysal, Ertuğrul et Dural in *Bot. J. Linn. Soc.* 154: 233-236 (2007).

(Uysal et al., 2007)

Type: (Turkey) **C4** Konya: Bozkır, Tufan Deresi, Avdan yaylası, alpine steppe, 1950-2100 m, 11.v.2005, Ertuğrul 3430, T.Uysal, M.Küçüködük, H.Dural (holo. KNYA; iso. GAZI).

*Ornithogalum* L. (8: 227)

\**O. boucheanum* (Kunth) Asch.

(Dalgiç et al., 2006)



European Turkey. **A1(E)**: Edirne: Hacıdanışiment-Sarıdanışiment village, 30.iv.1989, G.Dalgıç (EDTU 3150), Karakasım: Tayakadın village entrance, 29.iv.2004, G.Dalgıç and F.Dane (EDTU 9499).

e \*\***O. chetikianum** Uysal, Ertuğrul et Dural in Bot. J. Linn. Soc. 148: 501-503 (2005).

(Uysal et al., 2005)

Type: (Turkey) **C4** Konya: Bozkır, Yazı Yaylası, 2000 m, 10.v.2003, T.Uysal 207, K.Ertuğrul & H.Dural (holo. KNYA; iso. GAZI).

e \*\***O. mekselinae** Varol in Nord. J. Bot. 23: 607-608 (2005).

(Varol, 2005)

Type: (Turkey) **C2** Muğla: Muğla to Denizli, 20. km, Yaraş local, 600 m, 09.iii.2003, damp-fields and water meadows, Varol 4249, (holo. MUKLA; iso. GAZI)

e \*\***O. sumbulianum** O.D.Düşen et I.G.Deniz in Pak. J. Bot. 37: 33-34 (2005).

(Düşen & Deniz, 2005)

Type: (Turkey) **C2** Antalya: Elmalı, Çamkuyusu, 1600-1650 m, sparse *Cedrus libani* forests, 15.v.2002 İ.G.Deniz (2127) (holo. AKDU; iso. ANK, HUB, GAZI).

**Puschkinia** Adams (8: 226)

e \*\***P. peshmenii** Rix et B.Mathew in Curtis Bot. Mag. 24: 56-57 (2007).

(Rix & Mathew, 2007)

Type: (Turkey) **C10** Hakkari: Yüksekova, in the gorge leading into the valley from the west, among dwarf shrubs, E.M.Rix et al. 1926 (holo. ISTE; iso. K).

**Scilla** L. (8:214)

e \*\***S. seisumsiana** Rukšāns & Zetterlund in Buried Treasures 363 (2007).

(Rukšāns, 2007)

Type: (Turkey) **C8/9** Siirt: Siirt-Baykan road, 6 km south from the Silvan-Tatvan junction, 950 m, 25.v.2004, Ruksans, Seisums & Zetterlund BATM 04-055 (holo. GB).

**ORCHIDACEAE** (8: 450)

**Dactylorhiza** Necker ex Nevski (8: 535)

**D. maculata** (L.) Soó in Nom. Nova Gen. Dactylorhiza, 7 (1962).

\*subsp. **maculata**

(Daşkın et al., 2007)

= *Orchis maculata* L. in Sp. Pl. 2:942 (1753).

Lectotype: Habitat in Europae pratis succulentis, Herb. Linn. No. 1054.36 (LINN, photo).

W. Anatolia. **B2** Bursa: Uludağ, between İnegöl and Oylat; Mesruriye village, around Alaçam forest depot, marshy ground, 24.vii.2005, G.Kaynak, Ö.Yılmaz (holo. BULU).

**Himantoglossum** W.D. Koch (8:507)

**H. caprinum** Spreng.

e \*\*subsp. **robustissimum** Kreutz in Jour. Eur. Orch. 38:122 (2006).

(Kreutz, 2006)

Type: (Turkey) **A3** Bolu: etwa 15 km NE Abant, UTM UL60.49; lockerer Mischwald mit Eichengebüsch und grasigen Freiflächen, 980 m, 23.vi.1994, C.A.J.Kreutz (holo. L).

**Ophrys** L. (8:476)

**O. aramaeorum** P.Delforge

e \*\*f. **akcakarae** (Kreutz) P.Delforge in Naturalistes Belges 87 (Orchid. 19): 260 (2006).

(Delforge, 2006)

basionym: *Ophrys oestriifera* M.Bieb. subsp. *akcakarae* Kreutz Jour. Eur. Orch. 38: 162 (2006).

Type: (Turkey) **B8** Diyarbakır: etwa 10 km W Kulp, UTM 37S FC 65300/59670, Eichengebüsch mit niederem Laubwald und grasigen Freiflächen, 840 m, 20.v.2004, C.A.J.Kreutz (holo. L).

**O. argolica** H.Fleischm. ex Vierh.

e \*\*subsp. **mandalyana** (B.& H.Baumann ) Kreutz in Orchidee 57: 100 (2006).

(Kreutz, 2006)

basionym: *Ophrys ferrum-equinum* Desf. subsp. *mandalyana* B.Baumann & H.Baumann Jour. Eur. Orch. 37: 949 (2005).

basionym: *Ophrys argolica* H.Fleischm. ex Vierh. subsp. *mandalyana* (B..Baumann & H.Baumann) Kreutz Orchidee (Hamburg) 57: 100 (2006)

Type: (Turkey) C2 Muğla: Bodrum, 15.iv.1982, B.Baumann & H.Baumann (holo. STU).

*O. fusca* Link

e \*\*subsp. *thracica* Kreutz in Ber. Arbeitskrs. Heim. Orchid. 24: 102 (2007).

(Kreutz, 2007)

Type: (Turkey) A1(E) Çanakkale: Tayfur (Gelibolu-Halbinsel), 28.iv.1997, C.A.J.Kreutz (holo. L).

e \*\**O. x gennarii* Rchb.f. nothosubsp. *kusadasiensis* B.Baumann & H.Baumann in Jour. Eur. Orch. 37: 961 (2005).

(Baumann & Lorenz, 2005)

(*Orchis morio* L. subsp. *caucasica* (K.Koch) E.G.Camus, Bergon & A.Camus x *O. papilionacea* L. subsp. *heroica* (E.D.Clarke) H.Baumann)

Type: (Turkey) C1 Aydın: Kusadasi, 05.iv.1982, B.Baumann & H.Baumann (holo. STU).

e \*\**O. x rueckbrodtiana* W.Hahn in Ber. Arbeitskrs. Heim. Orchid. 24: 125 (2007).

(Hahn, 2007)

Type: (Turkey) C2 Muğla: prope urbem Kara aören; Mezarlık büyük, 8.v.2007, W.Hahn (holo. Hb. C.A.J.Kreutz).

*O. transhyrcana* Czerniak.

e \*\*subsp. *paphlagonica* Kreutz in Ber. Arbeitskrs. Heim. Orchid. 24: 119(2007).

(Kreutz, 2007)

Type: (Turkey) A5 Sinop: Umgebung von Türkeli, 18.v.1996, C.A.J.Kreutz (holo. L).

*Serapias* L. (8:502)

*S. vomeracea* Briq.

e \*\*subsp. *artemisiae* W.Hahn, Kreutz & Passin in Ber. Arbeitskrs. Heim. Orchid. 24: 134 (2007).

(Kreutz, 2007)

Type: (Turkey) C2 Muğla: Ortaca (Dalaman), 16.iv.1997, C.A.J.Kreutz (holo. L).

### New Taxonomic Status

(○ new synonym, ● new combination, ◆ new status, ■ nomen nova)

### CAMPANULACEAE

*Campanula* L. (6: 2)

● ◆ *C. pamphylica* (Contandr., Quezel & Pamukç.) E.Akçiçek & Vural.

(Akçiçek et al., 2005)

*Campanula argaea* Boiss. & Bal. subsp. *pamphylica* Contandr., Quezel & Pamukç., in Ann. Univ. Provence Sci. 46: 54. 1972.

● ◆ *C. pamphylica* (Contandr., Quezel & Pamukç.) subsp. *tokuri* (A.Ocak) E.Akçiçek & Vural.

(Akçiçek, et al., 2005)

*Campanula tokuri* A.Ocak, in Israel J.Pl. Sci. 51: 321.2003.

### CARYOPHYLLACEAE

*Arenaria* L. (2: 17)

*A. angustifolia* McNeill

(Parolly & Eren, 2006)

○ *Arenaria yunus-emrei* Aytaç & H.Duman in Ann. Bot. Fenn. 41: 213-214. 2004.

*Minuartia* L. (2: 38)

● ◆ *M. elmalia* (Aytaç) Aytaç, Parolly & Eren.

(Parolly & Eren, 2006)

*M. dianthifolia* subsp. *elmalia* Aytaç in Ann. Bot. Fenn. 41: 216. 2004.

*Silene* L. (2: 179)

*S. pratensis* (Rafn) Godron & Gren. in Gren. et Godron, Fl. Fr. 1: 216 (1847).

(McNeill & Prentice, 1981)

○ *Silene alba* (Mill.) E.H.L. Krause in Sturm, Deutschl. Fl. ed. 2, 5: 98 (1901) (non *S. alba* Muhl. Ex Britton (1893).)

● *S. pratensis* (Rafn) Gren. & Godr. subsp. *divaricata* (Reichnb.) McNeill & H.C.Prent.

(McNeill & Prentice, 1981)

○ *Silene alba* (Mill.) E.H.L. Krause subsp. *divaricata* (Reichnb.) Walters, Feddes Repert. 69: 48 (1964).

● *S. pratensis* (Rafn) Gren. & Godr. subsp. *ericalycina* (Boiss.) McNeill & H.C.Prent.

(McNeill & Prentice, 1981)

○ *Silene alba* (Mill.) E.H.L.Krause subsp. *ericalycina* (Boiss.) Walters, Feddes Repert. 69: 48 (1964).

#### COMPOSITAE

*Achillea* L. (5: 224)

● *A. santolinoides* Lag. subsp. *wilhelmsii* (K.Koch) Greuter.

(Greuter et al., 2003)

○ *A. wilhelmsii* K.Koch in *Linnaea* 24: 328 (1851).

*Centaurea* L. (5: 465)

◆ *C. kotschyi* (Boiss. & Heldr.) Hayek subsp. *persica* (Boiss.) Greuter.

(Greuter, 2003-b)

○ *Centaurea kotschyi* (Boiss. & Heldr.) Hayek var. *persica* (Boiss.) Wagenitz in *Bot. Jahrb. Syst.* 82: 169 (1963).

*Cirsium* Miller (5:370)

*C. leucocephalum* Spreng. subsp. *leucocephalum*.

(Greuter & Raus, 2005)

○ *C. lappaceum* (M.Bieb.) Fisch. subsp. *anatolicum* Petr.

○ *C. penicillatum* K.Koch subsp. *anatolicum* (Petr.) Soldano

*C. leucocephalum* Spreng. subsp. *penicillatum* (K.Koch) Greuter.

(Greuter & Raus, 2005)

○ *C. lappaceum* (M.Bieb.) Fisch. *Cat. Jard. Gorenki*, ed. 1812: 35. 1812 (non Lam. 1779).

● *C. leucocephalum* subsp. *tenuilobum* (K.Koch) Greuter.

(Greuter & Raus, 2005)

○ *Cirsium lappaceum* (M.Bieb.) Fisch. subsp. *tenuilobum* (K.Koch) P.H.Davis & Parris in *Notes Roy. Bot. Gard. Edinburgh* 33: 430 (1975).

*Conyzanthus* Tamasch. in *Fl. URSS* 25: 185, 583, (1959).

● *C. squamatus* (Spreng.) Tamamsch.

(Greuter & Raus, 1995)

○ *Aster squamatus* (Spreng.) Hieron

*Cota* J.Gay in *Guss. Fl. Sic. Syn.* ii. 866 (1844).

● *C. halophila* (Boiss. & Balansa) Oberprieler & Greuter.

(Greuter et al., 2003)

○ *Anthemis halophila* Boiss. & Balansa in *Boissier, Fl. Orient.* 3: 285 (1875).

● *C. melanoloma* (Trautv.) Holub subsp. *trapezuntica* (Grierson) Oberprieler & Greuter.

(Greuter et al., 2003)

○ *Anthemis melanoloma* Trautv. subsp. *trapezuntica* Grierson in *Notes Roy. Bot. Gard. Edinburgh* 33: 411 (1975).

● *C. tinctoria* J.Gay subsp. *euxina* (Boiss.) Oberprieler & Greuter.

(Greuter et al., 2003)

○ *Anthemis tinctoria* L. var. *euxina* (Boiss.) Grierson in *Notes Roy. Bot. Gard. Edinburgh* 33 (3): 428 (1975).

*Cyanus* Mill. in *Gard. Dict. Abr.*, ed. 4. (1754); Druce in *Rep. Bot. Exch. Cl. Brit. Isles*, 3: 431, (1913).

● *C. bourgaei* (Boiss.) Wagenitz & Greuter.

(Greuter, 2003-b)

○ *Centaurea bourgaei* Boiss., *Fl. Orient.* 3: 637, (1875).

● *C. pichleri* (Boiss.) Holub subsp. *extrarosularis* (Hayek & Siehe) Wagenitz & Greuter

(Greuter, 2003-b)

○ *Centaurea pichleri* Boiss. subsp. *extrarosularis* (Hayek & Siehe) Wagenitz in *Notes Roy. Bot. Gard. Edinburgh* 33: 231, (1974).

● *C. tchihatcheffii* (Fisch. & C.A.Mey.) Wagenitz & Greuter.

(Greuter, 2003-b)

○ *Centaurea tchihatcheffii* Fisch. & C.A.Mey. in *Ann. Sci. Nat., Bot.*, ser. 4, 1: 31, (1854).

*Echinops* L. (5: 609)

● *E. spinosissimus* Turra subsp. *bithynicus* (Boiss.) Greuter.

(Greuter, 2003-b)

○ *Echinops viscosus* subsp. *bithynicus* (Boiss.) Rech. f. in *Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr.* 105 (1): 641(1944).

- Helichrysum* Gaertner (5: 80)  
*H. chasmolyticum* P.H.Davis  
 (Parolly & Eren, 2006)  
 ○ *Helichrysum orbicularifolium* Sümbül & al. in Bot. J. Linn. Soc. 141: 251. 2003.  
*Hieracium* L. (5: 696)  
*H. transiens* Freyn  
 ● ◆ subsp. *autranii* (Post) Greuter.  
 (Greuter & Raab-Straube, 2007)  
 ○ *Hieracium autranii* Post in Bull. Herb. Boissier 1: 25, (1893).  
 ● ◆ subsp. *artabirensis* (Zahn) Greuter.  
 (Greuter & Raab-Straube, 2007)  
 ○ *Hieracium artabirensis* (Zahn) Üksip in Komarov, Fl. SSSR 30: 74 (1960).  
 ● ◆ subsp. *brandisianum* (Prain) Greuter.  
 (Greuter & Raab-Straube, 2007)  
 ○ *Hieracium brandisianum* [Zahn in Magyar Bot. Lapok 5: 83. 1906, nom. inval., ex] Prain, Index Kew., Suppl. 4: 109 (1913).  
 ● ◆ subsp. *caloprasinum* (Zahn) Greuter.  
 (Greuter & Raab-Straube, 2007)  
 ○ *Hieracium caloprasinum* (Zahn) Üksip in Komarov, Fl. SSSR 30: 73, (1960).  
 ● ◆ subsp. *cryptonaevum* (Bornm. & Zahn) Greuter.  
 (Greuter & Raab-Straube, 2007)  
 ○ *Hieracium cryptonaevum* (Bornm. & Zahn) P.D.Sell & C.West in Notes Roy. Bot. Gard. Edinburgh 33: 430, (1975).  
 ● ◆ subsp. *erythrocarpum* (Peter) Greuter.  
 (Greuter & Raab-Straube, 2007)  
 ○ *Hieracium erythrocarpum* Peter in Nachr. Königl. Ges. Wiss. Göttingen, Math.-Phys. Kl. 1898: 44, (1898).  
 ● ◆ subsp. *insolitum* (Zahn) Greuter.  
 (Greuter & Raab-Straube, 2007)  
 ○ *Hieracium insolitum* (Zahn) Üksip in Komarov, Fl. SSSR 30: 73 (1960).  
 ● ◆ subsp. *karagoellense* (Zahn) Greuter.  
 (Greuter & Raab-Straube, 2007)  
 ○ *Hieracium karagoellense* (Zahn) P.D.Sell & C.West in Notes Roy. Bot. Gard. Edinburgh 33: 431 (1975).  
 ● ◆ subsp. *karakolense* (Bornm. & Zahn) Greuter.  
 (Greuter & Raab-Straube, 2007)  
 ○ *Hieracium karakolense* (Bornm. & Zahn) P.D.Sell & C.West in Notes Roy. Bot. Gard. Edinburgh 33: 431 (1975).  
 ● ◆ subsp. *laxifurcans* (Bornm. & Zahn) Greuter.  
 (Greuter & Raab-Straube, 2007)  
 ○ *Hieracium laxifurcans* (Bornm. & Zahn) P.D.Sell & C.West in Notes Roy. Bot. Gard. Edinburgh 33: 431 (1975).  
 ● ◆ subsp. *malloporeres* (Bornm. & Zahn) Greuter.  
 (Greuter & Raab-Straube, 2007)  
 ○ *Hieracium malloporeres* (Bornm. & Zahn) P.D.Sell & C.West in Notes Roy. Bot. Gard. Edinburgh 33: 431 (1975).  
 ● ◆ subsp. *sintenisii* (Zahn) Greuter.  
 (Greuter & Raab-Straube, 2007)  
 ○ *Hieracium marmoricola* P.D.Sell & C.West in Notes Roy. Bot. Gard. Edinburgh 33: 244 (1974).  
 ● ◆ subsp. *stellidorsum* (Bornm. & Zahn) Greuter.  
 (Greuter & Raab-Straube, 2007)  
 ○ *Hieracium stellidorsum* (Bornm. & Zahn) P.D.Sell & C.West in Notes Roy. Bot. Gard. Edinburgh 33: 431 (1975).  
 ● ◆ subsp. *variegatisquamum* (Zahn) Greuter.  
 (Greuter & Raab-Straube, 2007)  
 ○ *Hieracium variegatisquamum* (Zahn) Üksip in Komarov, Fl. SSSR 30: 75 (1960).  
*H. jurassicum* Griseb.  
 ● ◆ subsp. *barbeyi* (Post) Greuter.  
 (Greuter & Raab-Straube, 2007)  
 ○ *Hieracium barbeyi* Post in Bull. Herb. Boissier 1: 24 (1893).  
 ● ◆ subsp. *tamderense* (Hub.-Mor.) Greuter.  
 (Greuter & Raab-Straube, 2007)  
 ○ *Hieracium tamderense* Hub.-Mor. in Notes Roy. Bot. Gard. Edinburgh 33: 246 (1974).

- H. chalcidicum* Boiss. & Heldr.
- ◆ subsp. *paphlagonicum* (Frey & Sint.) Greuter. (Greuter & Raab-Straube, 2007)
  - *Hieracium paphlagonicum* Frey & Sint. in Österr. Bot. Z. 44: 260 (1894).
  - ◆ subsp. *cappadocicum* (Frey) Greuter. (Greuter & Raab-Straube, 2007)
  - *Hieracium cappadocicum* Frey in Österr. Bot. Z. 41: 55 (1891).
  - ◆ subsp. *koenigianum* (Zahn) Greuter. (Greuter & Raab-Straube, 2007)
  - *Hieracium koenigianum* (Zahn) Üksip in Komarov, Fl. SSSR 30: 200 (1960).
  - ◆ *H. pannosum* Boiss. subsp. *strigulosum* (Post) Greuter. (Greuter & Raab-Straube, 2007)
  - *Hieracium strigulosum* Post in Bull. Herb. Boissier 1: 25 (1893).
  - ◆ *H. caucasiense* Arv.-Touv. ex Lipsky subsp. *biebersteinii* (Litv. & Zahn) Greuter. (Greuter & Raab-Straube, 2007)
  - *Hieracium biebersteinii* Litv. & Zahn in Repert. Spec. Nov. Regni Veg. 4: 329 (1907).
  - ◆ *H. brevifolium* Tausch subsp. *noëanum* (Zahn) Greuter. (Greuter & Raab-Straube, 2007)
  - *Hieracium noëanum* Zahn in Engler, Pflanzenr. 79: 1006 (1922).
  - ◆ *H. camkorijense* Zahn subsp. *sarykamyschense* (Üksip) Greuter. (Greuter & Raab-Straube, 2007)
  - *Hieracium sarykamyschense* Üksip in Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk SSSR 19: 487 (1959).
- H. lachenalii* Suter in Helvet. Fl. 2: 145 (1802).
- ◆ subsp. *argillaceoides* (Litv. & Zahn) Greuter. (Greuter & Raab-Straube, 2007)
  - *Hieracium argillaceoides* (Litv. & Zahn) Üksip in Komarov, Fl. SSSR 30: 269 (1960).
  - ◆ subsp. *macrophyllpodum* (Zahn) Greuter. (Greuter & Raab-Straube, 2007)
  - *Hieracium macrophyllpodum* (Zahn) Üksip in Komarov, Fl. SSSR 30: 255, (1960).
  - ◆ subsp. *subhastulatum* (Zahn) Greuter. (Greuter & Raab-Straube, 2007)
  - *Hieracium subhastulatum* (Zahn) Üksip in Komarov, Fl. SSSR 30: 257 (1960).
  - ◆ *H. laevigatum* Willd. subsp. *hypopityforme* (Üksip) Greuter. (Greuter & Raab-Straube, 2007)
  - *Hieracium hypopityforme* Üksip in Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk SSSR 19: 495 (1959).
  - ◆ *H. levicaule* Jord. subsp. *leptogrammoides* (Üksip) Greuter (Greuter & Raab-Straube, 2007)
  - *Hieracium leptogrammoides* Üksip in Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk SSSR 19: 502 (1959).
  - ◆ *H. murorum* L. subsp. *gentiliforme* (Zahn) Greuter. (Greuter & Raab-Straube, 2007)
  - *Hieracium gentiliforme* (Zahn) P.D.Sell & C.West in Notes Roy. Bot. Gard. Edinburgh 33: 431 (1975).
  - ◆ *H. racemosum* Waldst. & Kit. ex Willd. subsp. *subartvinense* (Üksip) Greuter. (Greuter & Raab-Straube, 2007)
  - *Hieracium subartvinense* Üksip in Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk SSSR 19: 468 (1959).
  - ◆ *H. schmidtii* Tausch subsp. *argaeum* (Zahn) Greuter. (Greuter & Raab-Straube, 2007)
  - *Hieracium argaeum* (Zahn) P.D.Sell & C.West in Notes Roy. Bot. Gard. Edinburgh 33: 430 (1975).
  - ◆ subsp. *giresunense* (Hub.-Mor.) Greuter. (Greuter & Raab-Straube, 2007)
  - *Hieracium giresunense* Hub.-Mor. in Notes Roy. Bot. Gard. Edinburgh 33: 245 (1974).



● ◆ subsp. *huber-morathii* (P.D.Sell & C.West) Greuter.

(Greuter & Raab-Straube, 2007)

○ *Hieracium huber-morathii* P.D.Sell & C.West in Notes Roy. Bot. Gard. Edinburgh 33: 244 (1974).

● ◆ subsp. *labillardierei* (Arv.-Touv.) Greuter.

(Greuter & Raab-Straube, 2007)

○ *Hieracium labillardierei* Arv.-Touv. in Annuaire Conserv. Jard. Bot. Genève 1: 101 (1897).

● ◆ subsp. *lasiochaetum* (Bornm. & Zahn) Greuter.

(Greuter & Raab-Straube, 2007)

○ *Hieracium lasiochaetum* (Bornm. & Zahn) P.D.Sell & C.West in Notes Roy. Bot. Gard. Edinburgh 33: 431 (1975).

● ◆ subsp. *leucothecum* (Frey) Greuter.

(Greuter & Raab-Straube, 2007)

○ *Hieracium leucothecum* Frey in Österr. Bot. Z. 42: 343, (1892).

● ◆ subsp. *pseudodontotrichum* (Hub.-Mor.) Greuter.

(Greuter & Raab-Straube, 2007)

○ *Hieracium pseudodontotrichum* Hub.-Mor. in Notes Roy. Bot. Gard. Edinburgh 33: 246 (1974).

● ◆ subsp. *subvandasii* (Bornm. & Zahn) Greuter.

(Greuter & Raab-Straube, 2007)

○ *Hieracium subvandasii* (Bornm. & Zahn) P.D.Sell & C.West in Notes Roy. Bot. Gard. Edinburgh 33: 431 (1975).

● ◆ *H. sericophyllum* Nejeff & Zahn subsp. *tmoleum* (Hub.-Mor.) Greuter.

(Greuter & Raab-Straube, 2007)

○ *Hieracium tmoleum* Hub.-Mor. in Notes Roy. Bot. Gard. Edinburgh 33: 247 (1974).

● ◆ *H. sparsum* Friv. subsp. *bey pazariense* (Hub.-Mor.) Greuter.

(Greuter & Raab-Straube, 2007)

○ *Hieracium bey pazariense* Hub.-Mor. in Notes Roy. Bot. Gard. Edinburgh 33: 425 (1975).

*Jacobaea* Mill. in Gard. Dict. Abr., ed. 4. (1754).

● *J. cilicia* (Boiss.) B.Nord.

(Greuter & Raab-Straube, 2007)

○ *Senecio cilicius* Boiss., Diagn. Pl. Orient., ser. 2, 3: 37, (1856).

● *J. inops* (Boiss. & Balansa) B.Nord.

(Greuter & Raab-Straube, 2007).

○ *Senecio inops* Boiss. & Balansa, Diagn. Pl. Orient., ser. 2, 6: 101, (1859).

● ◆ *J. maritima* (L.) Pelsler & Meijden subsp. *bicolor* (Willd.) B.Nord. & Greuter.

(Greuter & Raab-Straube, 2006)

○ *Senecio bicolor* (Willd.) Tod., Ind. Sem. Horti Panorm. 1859: 30, (1860) (non Viv. 1802).

● *J. sandrasica* (P.H.Davis) B.Nord. & Greuter.

(Greuter & Raab-Straube, 2006)

○ *Senecio sandrasicus* P.H.Davis in Notes Roy. Bot. Gard. Edinburgh 22: 75, (1956).

● *J. trapezuntina* (Boiss.) B.Nord.

(Greuter & Raab-Straube, 2007).

○ *Senecio trapezuntinus* Boiss., Fl. Orient. 3: 393, (1875).

*Klasea* Cass. in Dict. Sc. Nat. xxxv. 173 (1825); xli. 321.

● *K. aznavouriana* (Bornm.) Greuter & Wagenitz.

(Greuter, 2003-b)

○ *Serratula aznavouriana* Bornm. in Bull. Herb. Boissier, ser. 2, 6: 233 (1906).

● *K. bornmuelleri* (Azn.) Greuter & Wagenitz.

(Greuter, 2003-b)

○ *Serratula bornmuelleri* Azn. in Repert. Spec. Nov. Regni Veg. 11: 397 (1912).

● *K. cerinthifolia* (Sm.) Greuter & Wagenitz.

(Greuter, 2003-b)

○ *Serratula cerinthifolia* (Sm.) Boiss., Fl. Orient. 3: 585, (1875).

● *K. erucifolia* (L.) Greuter & Wagenitz.

(Greuter, 2003-b)

○ *Serratula erucifolia* (L.) Druce in Bot. Exch. Club Soc. Brit. Isles 3: 424 (1914).

- *K. grandifolia* (P.H.Davis) Greuter & Wagenitz.  
(Greuter, 2003-b)
- *Serratula grandifolia* P.H.Davis in Notes Roy. Bot. Gard. Edinburgh 33: 293 (1974).
- *K. hakkiarica* (P.H.Davis) Greuter & Wagenitz.  
(Greuter, 2003-b)
- *Serratula hakkiarica* P.H.Davis, Fl. Turkey 10: 235 (1988).
- *K. kotschy* (Boiss.) Greuter & Wagenitz.  
(Greuter, 2003-b)
- *Serratula kotschy* Boiss., Fl. Orient. 3: 590 (1875).
- *K. kurdica* (Post) Greuter & Wagenitz.  
(Greuter, 2003-b)
- *Serratula kurdica* Post, Pl. Post. 4: 8, (1892).
- *K. lasiocephala* (Bornm.) Greuter & Wagenitz.  
(Greuter, 2003-b)
- *Serratula lasiocephala* Bornm. in Repert. Spec. Nov. Regni Veg. 5: 167, (1908).
- *K. oligocephala* (DC.) Greuter & Wagenitz.  
(Greuter, 2003-b)
- *Serratula oligocephala* DC., Prodr. 6: 669, (1838).
- *K. quinquefolia* (Willd.) Greuter & Wagenitz.  
(Greuter, 2003-b)
- *Serratula quinquefolia* Willd., Sp. Pl. 3: 1639, (1803).
- *K. serratuloides* (DC.) Greuter & Wagenitz.  
(Greuter, 2003-b)
- *Serratula serratuloides* (DC.) Takht. in Tahtadzjan & Fedorov, Fl. Erevana: 323, (1945).
- *K. haussknechtii* (Boiss.) Holub (Martins, 2006)
- *Serratula haussknechtii* Boiss., Fl. Orient. 3: 589 (1875).
- *K. radiata* (Waldst. & Kit.) A.Löve & D. Löve (Martins, 2006)
- *Serratula radiata* (Waldst. & Kit.) M.Bieb., Fl. Taur.-Caucas. 3: 545 (1819).
- *K. radiata* (Waldst. & Kit.) A.Löve & D. Löve subsp. *biebersteiniana* (Grossh.) Greuter.  
(Greuter & Raab-Straube, 2005)
- *Serratula radiata* (Waldst. & Kit.) M.Bieb. subsp. *biebersteiniana* Grossh., Fl. Kavk. 4: 194 (1934).
- *K. coriacea* (Fisch. & C.A. Mey. ex DC.) Holub (Martins, 2006)
- *Serratula coriacea* Fisch. & C. A. Mey. ex DC., Prodr. 6: 668 (1838).
- Podospermum* DC. in Fl. Franc. (DC. & Lamarck), ed. 3. 4: 61, (1805).
- *P. laciniatum* DC. subsp. *decumbens* (Guss.) Gemeinholzer & Greuter.  
(Greuter & Raab-Straube, 2006)
- *Scorzonera laciniata* L. subsp. *decumbens* (Guss.) Greuter in Willdenowia 33: 237, (2003).
- ◆ *P. radicosum* (Boiss.) Gemeinholzer & Greuter.  
(Greuter & Raab-Straube, 2006)
- *Scorzonera cana* (C.A.Mey.) Hoffm. var. *radicosa* (Boiss.) Chamberlain in Notes Roy. Bot. Gard. Edinburgh 33(3): 433, (1975).
- *Scorzonera radicosum* Boiss., Diagn. Pl. Orient. 11: 43, (1849).
- Psephellus* Cass (5: 466)
- *P. goeksunensis* (Aytaç & H.Duman) Greuter & Raab-Straube.  
(Greuter & Raab-Straube, 2006)
- *Centaurea goeksunensis* Aytaç & H.Duman in Pakistan J. Bot. 37: 563, (2005).
- *P. yildizii* (Civelek et al.) Greuter.  
(Greuter, 2003-d)
- Centaurea yildizii* Civelek et al. in Bot. J. Linn. Soc. 143: 207 (2003).
- Reichardia* Roth (5:693)
- R. dichotoma* (DC.) Freyn.  
(Greuter, 2003-c)
- *Reichardia glauca* V.A. Matthews in Notes Roy. Bot. Gard. Edinburgh 34: 125. 1975, nom. illeg.
- Rhaponticoides* Vaill. in Phys. Abh. Königl. Akad. Wiss. Paris 5: 165 (1754).
- *R. amasiensis* (Bornm.) M.V.Agab. & Greuter.  
(Greuter, 2003-b)

○ *Centaurea amasiensis* Bornm. in Repert. Spec. Nov. Regni Veg. 3: 54 (1906).

● **R. amplifolia** (Boiss. & Heldr.) M.V.Agab. & Greuter.

(Greuter, 2003-b)

○ *Centaurea amplifolia* Boiss. & Heldr. in Boissier, Diagn. Pl. Orient., ser. 2, 3: 68 (1856).

● **R. iconiensis** (Hub.-Mor.) M.V.Agab. & Greuter.

(Greuter, 2003-b)

○ *Centaurea iconiensis* Hub.-Mor. in Bauhinia 7: 77 (1981).

● **R. mykalea** (Hub.-Mor.) M.V.Agab. & Greuter.

(Greuter, 2003-b)

○ *Centaurea mykalea* Hub.-Mor. in Bauhinia 6: 370 (1979).

**Xanthium** L. (5: 47)

● **X. orientale** L. subsp. *italicum* (Moretti) Greuter.

(Greuter, 2003-d)

*Xanthium italicum* Moretti in Giorn. Fis., ser. 2, 5: 326. 1822

*Xanthium italicum* Moretti subsp. *italicum* [per elak., Prodr. Fl. Böhmen:186. 1871]

*Xanthium saccharatum* subsp. *italicum* (Moretti) Hayek in Repert. Spec. Nov. Regni Veg. Beih. 30(2): 613.1931

*Xanthium strumarium* subsp. *italicum* (Moretti) D.Löve in Bot. J. Linn. Soc. 71:271.1976

*Xanthium echinatum* subsp. *italicum* (Moretti) O.Bolòs & Vigo in Collect. Bot. (Barcelona) 17: 90.1988.

*Xanthium saccharatum* Wallr., Beitr. Bot.: 238.1844; = *Xanthium cavanillesii* Schouw in Ann. Sci. Nat., Bot., ser. 3, 12: 357. 1849; & Ind. Sem. Hort. Acad. Haun. 1849: 14. 1849-1850

*Xanthium strumarium* subsp. *cavanillesii* (Schouw) D.Löve & Dans. in Canad. J. Bot. 37: 205. 1959.

**Scorzonera** L. (5: 632)

● **S. laciniata** L. subsp. *decumbens* (Guss.) Greuter.

(Greuter, 2003-c)

○ *Scorzonera laciniata* L. subsp. *calcitrapifolia* (Vahl) Maire in Bull. Soc. Hist. Nat. Afrique N. 22: 302 (1931).

**Senecio** L. (5: 145)

● ◆ **S. leucanthemifolius** Poir. subsp. *vernalis* (Waldst. & Kit.) Greuter.

(Greuter, 2003-d)

○ *Senecio vernalis* Waldst. & Kit., Descr. Icon. Pl. Hung. 1: 23, (1800).

**Sonchus** L. (5: 690)

● **S. bulbosus** (L.) N.Kilian & Greuter subsp. *microcephalus* (Rech.f.) N.Kilian & Greuter.

(Greuter, 2003-c)

○ *Aetheorhiza bulbosa* L. subsp. *microcephala* Rech. f. in Phytion (Horn) 16: 217.

**Tragopogon** L. (5: 657)

● ◆ **T. porrifolius** L. subsp. *longirostris* (Sch. Bip.) Greuter.

(Greuter, 2003-c)

○ *Tragopogon longirostris* Sch. Bip. in Webb & Berthelot, Hist. Nat. Iles Canaries 3(2,2): 469 (1850).

**Tripolium** Nees in Gen. Sp. Aster. 10, 152 (1832).

● **T. pannonicum** (Jacq.) Dobrocz. subsp. *tripolium* (L.) Greuter.

(Greuter, 2003-a)

○ *Aster tripolium* L., Sp. Pl.: 872 (1753).

**CRUCIFERAE** (1: 248)

**Barbarea** R.Br. (1: 433)

**B. brachycarpa** Boiss.

● ◆ subsp. *anfractuosa* (Hartvig & Strid) Parolly & Eren.

(Parolly & Eren, 2006)

*Barbarea minor* K.Koch var. *anfractuosa* Hartvig & Strid in Bot. Jahrb. Syst. 108: 316 (1987).

**B. brachycarpa** Boiss.

subsp. *brachycarpa*

var. *brachycarpa*

(Parolly & Eren, 2006)

○ *Barbarea minor* K.Koch var. *libanotica* Bornm. in Verh. Zool.-Bot. Ges. Wien 48: 550 (1898).

○ *Barbarea minor* K.Koch var. *eriopoda* N.Busch, Fl. Cauc. Crit. 3 (4): 318 (1909).

○ *Barbarea hedgeana* Kit Tan & Gemici in *Edinb J Bot* 47: 287 (1990).

**B. brachycarpa** Boiss.

● ◆ subsp. **robusta** (Coode & Cullen) Parolly & Eren.

(Parolly & Eren, 2006)

*Barbarea minor* K.Koch var. *robusta* Coode & Cullen in *Notes Roy. Bot. Gard. Edinburg* 26: 190 (1965).

**B. brachycarpa** Boiss.

● ◆ subsp. **minor** (K.Koch) Parolly & Eren.

(Parolly & Eren, 2006)

*Barbarea minor* K.Koch in *Linnaea* 19: 55.1847.

var. **minor** (Parolly & Eren, 2006)

○ *Barbarea alpina* K.Koch in *Linnaea* 19: 319 (1847).

**Draba** L. (1: 413)

**D. imeretica** (Rupr.) Rupr.

(Parolly & Eren, 2007)

○ *D. terekemensis* Yild. in *Ot* 7: 1-6 (2000).

**Noccaea** Moench

● **N. cariensis** (Carlström) Parolly, Nordt & Aytaç (Aytaç et al., 2006)

(basionym: *Thlaspi carienense* Carlström in *Willdenowia* 16 (1): 73. 1986)

● ◆ **N. sintenisii** subsp. **crassum** (P.H.Davis) Parolly.

(Parolly & Eren, 2006)

*Thlaspi crassum* P.H.Davis in *Fl. Turk.* 10: 235. 1988

*Thlaspi sintenisii* Hausskn. ex Bornm. subsp. *crassum* (P.H.Davis) Parolly

**Zuvanda** (F.Dvorak) Askerova

◆ **Z. exacoides** (DC.) Askerova.

(Parolly & Eren, 2007)

*Sisymbrium exacoides* DC., *Syst. Veg.* 2: 463. 1821

*Malcolmia exacoides* (DC.) Spreng., *Syst. Veg.*, ed. 16, 2: 899.1825.

*Conringia nana* Boiss. & Kotschy in Boissier, *Diagn. Pl. Orient.*, ser. 2, 5: 25.1856.

*Malcolmia conringiodes* Boiss., *Fl. Orient.* 1: 230.

1867.

**DIPSACACEAE**

**Cephalaria** Schroder ex Roemer et Schultes (4: 585)

**C. balansae** Raus in *Willdenowia* 35(1): 59 (2005).

(Greuter & Raus, 2005)

○ *C. dipsacoides* Boiss. & Balansa (non Kar. & Kir. in *Bull. Soc. Imp. Naturalistes Moscou* 14: 434. 1841) in Boissier, *Diagn. Pl. Orient.*, ser. 2, 5: 107, (1859).

**EUPHORBIACEAE**

**Chamaesyce** S.F.Gray (7: 571)

● **C. canescens** (L.) Prokh. (Parolly & Eren, 2007)

*Euphorbia canescens* L., *Sp. Pl. Ed.* 2: 652 (1762)

*Euphorbia chamaesyce* L., *Sp. Pl.* 455 (1753)

● **C. forskalii** (J.Gay) Parolly.

(Parolly & Eren, 2007)

*Euphorbia forskalii* J.Gay in Webb & Berth., *Hist. Nat. Canaries* 3 (2, 3): 240(1847).

*Euphorbia aegyptiaca* Boiss., *Cent. Euphorb.*: 13. 1860, nom. illeg

● **C. humifusa** (Willd.) Prokh.

(Parolly & Eren, 2007)

*Euphorbia humifusa* Willd. in *Enum. Pl. Horti Berol. Suppl.* 27 (1813).

● **C. maculata** (L.) J.K.Small.

(Parolly & Eren, 2007)

*Euphorbia maculata* sensu auct. *Plur.*, non L. (1753).

*Euphorbia supina* Rafin. in *Amer. Monthly Mag.* 2: 119 (1817).

● **C. nutans** (Lag.) J.K.Small.

(Parolly & Eren, 2007)

*Euphorbia nutans* Lag., *Gen. Sp. Pl.*: 17. (1816)

● **C. peplis** (L.) Prokh.

(Parolly & Eren, 2007)

*Euphorbia peplis* L. in *Sp. Pl.* 455 (1753).

● **C. prostrata** (Aiton) J.K.Small.

(Parolly & Eren, 2007)

*Euphorbia prostrata* Aiton, Hort. Kew. ed. 1, 2: 139 (1789)

● **C. serpens** (Kunth) J.K.Small.

(Parolly & Eren, 2007)

*Euphorbia serpens* Kunth in Humb., Bonpl. & Kunth, Nov. Gen. Sp. 2: 52 (1817).

**LABIATAE**

*Salvia* L. (7: 400)

■ **S. absconditiflora** Greuter & Burdet in Willdenowia 15: 77 (1985).

(Greuter & al., 1986)

*S. cryptantha* Montbret & Aucher ex Benth. in Ann. Sci. Nat. Bot. Ser. 2, 6: 40 (1836) (non *Salvia cryptanthos* Schultes, Observ. Bot.: 12. 1809).

**LEGUMINOSAE**

*Astragalus* L. (3: 49)

◆ **A. lycanicus** Hub.-Mor. & Reese, Feddes Repert 48: 282 (1940).

(Ekici et al., 2005)

*A. mesogitanus* Boiss., Diagn. Ser. 1 (2): 41 (1843).

*Cytisopsis* Jaub. & Spach (3: 511)

● **C. pseudocytisus** (Boiss.) Fertig (Greuter & Raus, 1989)

○ *C. dorycniifolia* Jaub. & Spach subsp. *reeseana* (Guyot) Huber-Morath in P.H.Davis, Fl. Turkey 3: 511 (1970).

*Genista* L. (3: 24)

● ◆ **Genista januensis** subsp. *lydia* (Boiss.) Kit Tan & Zielinski.

(Zielinski et al., 2004)

*G. lydia* Boiss., Diagn. Pl. Orient. ser. 1, 2: 8. 1843.

*G. lydia* Boiss. var. *lydia* in Flora of Turkey and the East Aegean Islands 3: 26. 1970.

*G. leptophylla* Spach, Ann. Sci. Nat., ser. 3, 3: 127. 1845.

*G. antiochia* Boiss., Diagn. Pl. Orient. 9: 4. 1849.

*G. patula* M.Bieb. var. *antiochia* (Boiss.) Boiss., Fl. Orient. 2: 44. 1867.

*G. lydia* Boiss. var. *antiochia* (Boiss.) P.E.Gibbs, Flora of Turkey and the East Aegean Islands 3: 26. 1970.

*G. lydia* Boiss. subsp. *antiochia* (Boiss.) Ponert, Feddes Repert. 83: 619. 1973.

*Medicago* L. (3: 483)

● **M. monantha** Blatt subsp. *noëana* (Boiss.) Greuter & Burdet.

(Greuter & Raus, 1989)

○ *Trigonella monantha* C.A.Mey. subsp. *noëana* (Boiss.) Hub.-Mor. in P.H.Davis, Fl. Turkey 3: 475 (1969).

*Ononis* L. (3: 373)

◆ **O. spinosa** L. subsp. *arvensis* (L.) Greuter & Burdet (Greuter & Raus, 1989)

○ *Ononis arvensis* L. in Syst. Nat. ed. 10: 1159, (1759).

**LINACEAE**

*Linum* L. (2: 425)

*L. hirsutum* L., Sp. Pl. ed. 2, 398 (1762).

◆ subsp. **platyphyllum** (P.H.Davis) Yılmaz & Kaynak (Yılmaz & Kaynak, 2006)

*L. hirsutum* L. subsp. *anatolicum* (Boiss.) Hayek var. *platyphyllum* P.H.Davis, Notes Royal Bot. Garden Edinburgh 22: 142. (1957).

*L. pamphylicum* Boiss. & Heldr. ex Planch., London J. Bot. vii. 511 (1848).

● ◆ subsp. **papilliferum** (Hub.-Mor. & Reese) Yılmaz & Kaynak.

(Yılmaz & Kaynak, 2006)

*Linum papilliferum* Hub.-Mor. & Reese in Feddes Repert. 52 (1): 45. 1943.

*L. mucronatum* Bertol. subsp. *gypticola* P.H.Davis var. *papilliferum* (Hub.-Mor. & Reese) P.H.Davis, Notes Royal Bot. Garden Edinburgh 22: 158 (1967).



## POLYGONACEAE

*Persicaria* (L.) Miller Gard. Dict. Abr., ed. 4. (1054) 1754.

● *P. bistorta* Sampaio subsp. *carnea* (K.Koch) Greuter & Burdet.

(Greuter & Raus, 1989)

*Polygonum bistorta* L. subsp. *carneum* (K.Koch) Coode & Cullen in Notes Roy. Bot. Gard. Edinburgh 27: 215 (1967).

## PLUMBAGINACEAE

*Acantholimon* Boiss. (7: 478)

*A. acerosum* (Willd.) Boiss., Diagn. Ser. 1 (7): 80 (1846).

● ◆ subsp. *brachystachyum* (Boiss.) Dogan & Akaydin.

(Doğan & Akaydin, 2007)

Syn.: *A. acerosum* (Willd.) Boiss. var. *brachystachyum* Boiss. Fl. Or. 4: 838 (1879); *A. tchihatcheffii* Fisch. & Mey., Ann. Sci. Nat. Ser. 4, 1: 30 (1843); *A. phrygium* Boiss., Diagn. Ser. 1 (7): 79 (1846); *A. pinardii* Boiss., loc. Cit. (1846); *A. listoniae* Boiss. in DC., Prodr. 12: 631 (1848); *A. acerosum* (Willd.) Boiss. var. *pinardii* (Boiss.) Mobayen, Revis. Taxon. *Acantholimon*: 179 (1964). Ic: Tchihat., Asia Min. Atlas t.36 (1860).

● ◆ *A. multiflorum* (Bokhari) Dogan & Akaydin.

(Doğan & Akaydin, 2007)

Syn.: *A. spirizianum* Mobayen var. *multiflorum* Bokhari, Notes R.B.G. Edinb. 32: 70 (1972).

● ◆ *A. parviflorum* (Bokhari) Akaydin & Dogan.

(Doğan & Akaydin, 2007)

Syn.: *A. caryophyllaceum* Boiss. var. *parviflorum* Bokhari, Notes R.B.G. Edinb. 30: 299 (1970).

*A. puberulum* Boiss. & Bal. in Boiss., Diagn, ser, 2 (4): 62 (1859).

● ◆ subsp. *longiscapum* (Bokhari) Dogan & Akaydin.

(Doğan & Akaydin, 2007)

Syn.: *A. puberulum* var. *longiscapum* Bokhari, Notes R.B.G.Edinb. 30: 300 (1970).

*A. puberulum* Boiss. & Bal. in Boiss., Diagn, ser, 2 (4): 62 (1859).

● ◆ subsp. *peroninii* (Boiss.) Akaydin & Dogan.

(Doğan & Akaydin, 2007)

Syn.: *A. peroninii* Boiss., Fl. Or. 4: 842 (1879).

*A. puberulum* Boiss. & Bal. in Boiss., Diagn, ser, 2 (4): 62 (1859).

● ◆ subsp. *puberulum*.

(Doğan & Akaydin, 2007)

Syn.: *A. puberulum* Boiss. & Bal. var. *glabrum* Bokhari, Notes R.B.G. Edinb. 30: 300 (1970).

*A. quinquelobum* Bunge, Mem. Acad. Sci. Petersb. Ser. 7, 18 (2): 56 (1872).

● ◆ var. *curviflorum* (Bunge) Dogan & Akaydin.

(Doğan & Akaydin, 2007)

Syn.: *A. curviflorum* Bunge in Mem. Acad. Sci. Petersb. Ser. 7, 18 (2): 57 (1872).

## RANUNCULACEAE

*Anemone* L. (1: 134)

● *A. narcissifolia* L. subsp. *willdenowii* (Boiss.) Greuter & Burdet.

(Greuter & Raus, 1989)

*A. narcissiflora* L. subsp. *willdenowii* (Boiss.) P.H.Davis in Notes Roy. Bot. Gard. Edinburgh 26: 175 (1965).

*Delphinium* L. (1: 108)

● ◆ *D. fissum* Waldst. & Kit. subsp. *albiflorum* (DC.) Greuter & Burdet.

(Greuter & Raus, 1989)

*D. albiflorum* DC., Syst. Nat. 1: 353 (1817).

*Ranunculus* L. (1: 146)

*R. peltatus* Schrank

○ *R. kastamonuensis* A.Dönmez.

(Parolly & Eren, 2007)

■ *R. kurdicus* Greuter & Burdet.

(Greuter & Raus, 1989)

*R. diversifolius* Boiss. & Kotschy in Boiss., Fl. Orient. 1: 45, 1867 [non Schrank, Baier. Fl. 2: 103, 1789].

ROSACEAE

*Crataegus* L. (4: 133)

*C. rhipidophylla* Gand.

var. *rhipidophylla*

(Dönmez, 2007)

○ *C. curvisepala* Lindman in Svensk Fanerogamfl. 307 (1918). (Dönmez, 2004 & 2007)

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*Urtica* L. (7: 633)

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