

## Check-list of additional taxa to the supplement Flora of Turkey V

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**Abstract:** The fifth check-list of the series entitled “*Additional taxa to the Flora of Turkey*” comprises a total of 249 taxa based on data given in 167 papers, which have been published up until the end of 2010. It provides details of taxa which have not been recorded either in the 11 volumes of *Flora of Turkey and the East Aegean Islands* or in the 4 previously published supplementary check-lists.

**Key words:** Turkish flora, new species, new records, additional taxa

### Türkiye Florasına ilave edilen taksonların listesi V

**Özet:** “*Türkiye Florasına ilave taksonlar*” adlı seri halinde yayınlanmakta olan çalışmanın beşincisi, 2010 yılı sonuna kadar yayınlanan 167 çalışmada verilen 249 taksondan oluşmaktadır. Bu çalışma, 11 ciltlik Türkiye Florasında ve bu seri çalışmanın ilk dördünde bulunmayan taksonları içermektedir.

**Anahtar sözcükler:** Türkiye florası, yeni türler, yeni kayıtlar, ilave taksonlar

### Introduction

*Flora of Turkey and the East Aegean Islands* was published by P.H. Davis in 9 volumes during September 1965-December 1985 (Davis, 1965-1985). After its publication, Turkey’s flora has received considerable attention from botanists, both in Turkey and abroad. The first Supplement published by Davis et al. (1988) includes accounts of an additional 472 numbered taxa at species rank or below together with accounts of some other imperfectly known taxa (Davis et al., 1988). Since the publication of the first Supplement (vol. 10), 2 check-lists had been

prepared by Özhatay and Kültür in 1994 and 1999, which included almost all the new findings relating to the Turkish flora (Özhatay et al., 1994, 1999). These check-lists provided a good starting point for the project of the second Supplement of it and it was published by Güner, Özhatay, Ekim, and Başer in 2000. It includes accounts of an additional 567 numbered taxa at species rank or below together with accounts of some other imperfectly known taxa (Güner et al., 2000).

Since 2000, 518 papers about additional taxa on the flora of Turkey have been published. In addition,

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3 check-lists (including this paper) have been prepared by Özhatay and Kültür in 2006, 2009, and 2011 (Özhatay & Kültür, 2006, Özhatay et al., 2009).

The aim of this paper is to present all published taxa added to the flora of Turkey during 2008 to 2010 with the missing records in earlier check-lists. The present list comprises a total of 249 taxa, of which 189 taxa were added as taxa new to science (comprising 158 species, 20 subspecies, 9 varieties, 1 form, and 1 hybrid), whilst a further 60 known taxa have previously been unrecorded from Turkey (53 species, 4 subspecies, and 3 varieties) (Table 1). Eleven genera were added: *Acalypha* L. (Euphorbiaceae), *Bornmuellerantha* Rothm. (Orobanchaceae), *Chamaespartium* Adans (Leguminosae), *Crassocephalum* Moench (Compositae), *Cymbogopogon* Spreng. (Gramineae), *Halothamnus* Jaub. & Spach (Chenopodiaceae), *Leiotulus* Ehrenb. (Umbelliferae), *Lophantus* Adans. (Labiatae), *Neocryptodiscus* Hedge & Lamond (Umbelliferae), *Pseudognaphalium* Kirp. (Compositae), and *Pseudosempervivum* (Boiss.) Grossh. (Cruciferae).

The remaining 19 taxa represent new combinations, new status indications for previously known taxa (8 comb. nov., 7 comb. et stat. nov., 2 stat. nov., 1 nom. et stat. nov., and 1 emendation), and 2 taxa represent cultivar forms.

The list of the additional taxa is arranged in alphabetical order within families, genera, and species under 3 main systematic groups: **Gymnospermae**, **Dicotyledonae**, and **Monocotyledonae**. Identical

Table 1. Additional taxa and status.

	Taxa new to science	Taxa new to Turkey
Genus	-	11
Species	158	53
Subspecies	20	4
Variety	9	3
Form	1	-
Hybrid	1	-
Total	189	60

format as given in Davis' *Supplement to the Flora of Turkey* (Davis et al., 1988) and references to original papers appear in brackets at the end of the taxon's scientific name. It is hoped that this list will be provide useful information for those currently studying Turkey's flora.

We have endeavoured to trace all additional taxa to the Flora published before the end of 2010. Nevertheless, we are sure that there are further unreported taxa either in Davis' *Flora of Turkey* or in our supplementary check-lists. Accordingly, we would welcome all additions or comments for future issues in the series.

The first check-list was published 16 years ago, and we were completely aware that subsequent to the publication of the first paper of the series further additions would be discovered to Turkey's exceptionally rich flora. Therefore, we realise that publishing the series of papers would become necessary, once every few years. Since 1994, 719 papers have been published in a wide range of journals as additional taxa to the Turkish flora and other publications have been reviewed by the authors. They are now stored as a collection in the library of ISTE (Herbarium of İstanbul University, Faculty of Pharmacy). We are planning to publish further additional taxa as an end of each year report in the e-bulletin of ISTE starting in 2011.

Table 2 shows a summary of statistical data of 5 check-lists published during 1994-2011; according to these data 2 periods can be recognised:

**Period I** (12 years): First Supplement (1988) to Second Supplement (2000).

**Period II** (11 years): Second Supplement (2000) to 2011.

The list of additional taxa

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

## GYMNOSPERMAE

### CUPRESSACEAE (1: 76)

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

**e\*\*J. oxycedrus f. yaltirikiana** Avci & Ziel., in *Phytologia Balcanica* 14(1): 37-40 (2008).

Table 2. Statistical data of 5 check-lists.

		Taxa new to science	Taxa new to Turkey	Total	References
Period I	<i>Check-List of Additional Taxa to the Supplement Flora of Turkey I</i> (1994)	124 (1988-1994)	46 (1988-1994)	170	94
	<i>Check-List of Additional Taxa to the Supplement Flora of Turkey II</i> (1999)	109 (1995-1998)	51 (1995-1998)	160	107
	Total of period I	233	97	330	201
<b><i>Flora of Turkey and the East Aegean Islands Supplement II (2000)</i></b>					
Period II	<i>Check-List of Additional Taxa to the Supplement Flora of Turkey III</i> (2006)	189 (2000-2004)	106 (2000-2004)	295	195
	<i>Check-List of Additional Taxa to the Supplement Flora of Turkey IV</i> (2009)	121 (2005-2007)	54 (2005-2007)	175	156
	<i>Check-List of Additional Taxa to the Supplement Flora of Turkey V</i>	189 (2008-2010)	60 (2008-2010)	249	167
	Total of period II	499	220	719	518
TOTAL		732	317	1049	719

(Avci & Zielinski, 2008)

Type: Turkey, E of Zonguldak, between Göbü and Türkali villages, 100-150 m, 17.viii.2007, leg. *M.Avci* (holo. ISTO 32573, iso. ISTE 83922).

#### DICOTYLEDONES

##### AMARANTHACEAE (2: 340)

##### *Halocnemum* L. (2: 319)

e\*\**H. yurdakulolii* Yaprak, in Bot. J. Linn. Soc. 158: 716-721 (2008).

(Yaprak & Kadereit, 2008)

Type: Turkey, C5 Mersin: Silifke, Göksu Delta, edge of the Paradeniz Lagoon, hypersaline flats in coastal lagoons, sea level, 4.xi.2004, *A.E.Yaprak* 2004-116 (holo. ANK, iso. GAZI, KAS, MJG).

##### ARISTOLOCHIACEAE (7: 551)

##### *Aristolochia* L. (7: 552)

e\*\**A. zonguldakense* Yıld., in Ot Sistemantik Botanik Dergisi 17(2): 1-114 (2010).

(Yıldırım, 2010)

Type: Turkey, A4 Zonguldak: Karabük, Beşbinevler üstü, nadaslı alanlar, 350-600 m, 27.iv.1985, Ş. *Yıldırım* 7765 (holo. Hb. Yıldırım, iso. HUB).

##### BORAGINACEAE (6: 237)

##### *Anchusa* L. (6: 388)

\* *A. aegyptiaca* (L) DC., in Prodr. 10: 48 (1846).  
(Yıldırım & Gemici, 2010)

S. Anatolia, C5 Mersin: Silifke, around Cennet-Cehennem caverns, opening area between limestone rocks, 36°26'32"N, 034°06'46"E, 53 m, 16.iv.2009, *H.Yıldırım* 1534 (EGE).

##### *Heliotropium* L. (6: 248)

e\*\* *H. samoliflorum* Bunge subsp. *erzurumicum* Dönmez, in Ann. Bot. Fenn. 45: 396-399 (2008).

(Dönmez, 2008)

Type: Turkey, A8 Erzurum: from Olur to Yusufeli,

15 km, around Buzluca village, metamorphic rocks, 40°46'009"N, 42°03'854"E, 930 m, 2.vii.2002 A.A.Dönmez 11067 (HUB).

e\*\* **H. thermophilum** Kit Tan, A Çelik & Gemici, in Adv. Sci. Lett. 1(1): 132-139 (2008).

(Tan et al., 2008)

Type: Turkey, **C2** Aydın/Denizli: 20 km from Denizli to Buharkent, geothermal valley of Kızıldere Power Plant, damp and muddy places with ground temperatures of 55-65 °C, 220 m, 15.viii.2004, A.Çelik 4322 (holo. PAU, iso. AKDU, C, EGE, herb. Kit).

Paratypes: loc. ibid., 22.viii.2007, Y.Gemici 20,000 (EGE); loc. ibid., 17.ix.2007, H.Yıldırım 1392 (EGE).

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

e\*\***O. beyazoglui** Kandemir & Türkmen, in Turk. J. Bot. 34: 277-282 (2010).

(Kandemir & Türkmen, 2010)

Type: Turkey, **B7** Erzincan: 100km from Erzincan to İliç, 28.v.2008, 39°34'244"N, 38°37'268"E, 1020 m, *Kandemir* 9087 (holo. KTUB, iso. ANK, GAZI, ISTE).

**CAMPANULACEAE** (6: 2)

**Michauxia** L. (6: 81)

\***M. nuda** A.DC., in Prodr. 7: 457 (1838).

(Aslan et al., 2010)

S.E. Anatolia. **C8** Siirt: between Siirt and Eruh, gorge of Botan river, 37°50'37"N, 41°52'37"E, 09.vi.2009, 425 m, on limestone slopes, S.Aslan 3802 & B.Şahin (GAZI); ibid., 37°53'4.42"N, 41°53'20" E, 19.v.2009, 700 m, roadsides, S.Aslan 3650 et al. (GAZI).

**CARYOPHYLLACEAE** (2: 15)

**Dianthus** L. (2: 99)

e\*\* **D. aytachii** C.Vural, in Bot. J. Linn. Soc. 158: 55-61 (2008).

(Vural, 2008)

Type: Turkey, **B5** Kayseri: Mount Erciyes, mountain steppe, volcanic stony slope, 38°32.032'N, 035°30.089'E, 2500-2700 m, 7.ix.2005, C.Vural 3767 (holo. ERCIYES Hb., iso. ANK, GAZI, HUB).

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

\***S. suffruticosa** Nábělek in Publ. Fac. Sc. Univ. Masaryk, Brno No.35, 41 (1923).

(Dönmez, 2009)

S.E. Anatolia. **C9** Siirt: 5 km from Siirt to Eruh, Görendoruk region, on limestone crevices, 37°42'658"N 042°15'712"E, 1202 m, 29. v. 2002, A.A.Dönmez 10744 & B.Mutlu; ibid., 18.vi.2003, A.A.Dönmez 11200 & B.Mutlu ibid., 18.vi.2003, A.A.Dönmez 11839. **C9** Şırnak: 12.5 km, from Uludere road junction to Beytüşşebap, 37°23'353"N, 042°54'026"E, 1070 m, 18.vi.2003, A.A.Dönmez 11233 & B.Mutlu; Beytüşşebap, below Başaran village, 18.vi.2003, A.A.Dönmez 11260 & B.Mutlu; Uludere, 500 m from Dağdibi village to main road, limestone crevices, 37°22'320"N, 043°07'784"E, 1124 m, 26.v.2004, A.A.Dönmez 11919; Eruh, above Gölgekonak village, *Quercus brantii* opening, limestone crevices. 37°45'114"E, 390 m, 19.vi.2005, A.A.Dönmez 12118, I.Al-Shehbaz & M.Menke.

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

e\*\***S. aydosensis** K.Yıldız & Erik, in Ann. Bot. Fenn. 47: 151-155 (2010).

(Yıldız & Erik, 2010)

Type: Turkey, **C5** Konya: Ereğli, Aydos mountain, Aktoprak, damaged *Quercus*, *Pinus* forest, 1700 m, 28.viii.1973, S.Erik 2614 (HUB 3630).

Paratype: Turkey, **C2** Muğla: between Köyceğiz and Ağla villages, 1400 m, 3.ix.1992, A.Güner 10890 (ANK).

e\*\***S. bayburtensis** Hamzaoğlu & Aksoy, in Turk. J. Bot. 34: 47-50 (2010).

(Hamzaoğlu et al., 2010a)

Type: Turkey, **A8** Bayburt: between Çayırlyolu and Kitre villages, 1700 m, rocky slopes on calcareous steppe, 13.vi.2007, *Hamzaoğlu* 4587, *Aksoy* & *Budak* (holo. BOZOK Hb., iso. ANK, BOZOK Hb., GAZI, HUB).

e\*\***S. bitlisensis** Tugay & Ertugrul, in Bot. J. Linn. Soc. 156: 463-466 (2008).

(Tugay & Ertugrul, 2008)

Type: Turkey, **B9** Bitlis: Green Line Afforestation Zone, 1680 m, 38°26.370'N, 42°08.620'E, 4.vii.2003, *Ertugrul* 2927 & *O.Tugay* (holo. KNYA, iso. ANK, GAZI, K).

**e\*\*S. cirpicii** K.Yıldız & Dadandı, in Ann. Bot. Fenn. 46: 464-468 (2009).

(Yıldız & Dadandı, 2009)

Type: Turkey, **A5** Amasya: Akdağ, near the radio link station, 1800-1900 m, 40°46'783"N, 35°55'624"E, 25.vii.2005, *K.Yıldız* 041-1 & *M.Y.Dadandı* (holo. MUFE 12096, iso. Herbaria of Celal Bayar University Department of Biology, ERCIYES Hb.).

Paratypes: **A5** Amasya: Akdağ, near radio link station, 1800-1900 m, 21.viii.2006, *K.Yıldız* 0178-1 & *M.Y.Dadandı* (MUFE 12386). **A5** Amasya: Akdağ, above Eğribük village, Sivrikaya, 14.viii.1977, 1600 m, *K.Alpınar* (ISTE 38485).

**e\*\*S. demirizii** K.Yıldız & Çirpici, in Nord. J. Bot. 28: 332-340 (2010).

(Yıldız et al., 2010)

Type: Turkey, **B7** Erzincan: Refahiye to Erzincan 21 km, steppe, between natural gas pipe line and road, south slopes, 40°06'123"N, 29°07'577"E, 1850-2000 m a.s.l., 27.vii.2005, *K.Yıldız* & *M.Y.Dadandı* (holo. MUFE 12110, iso. Herbaria of Celal Bayar University, ERCIYES Hb.).

Paratypes: Turkey, **B7** Erzincan: Refahiye to Erzincan 32 km, steppe, north-east slopes, 40°16'125"N, 38°17'508"E, 2000 m a.s.l., 27.vii.2005, *K.Yıldız*, *M.Y.Dadandı*, MUFE 12112; **A9** Kars: Kağızman Mountain, Akçay to Cumaçay ca 20 km, sloping meadows, 2200 m a.s.l., 11.viii.1966, *Davis* 47728 (ISTO 12738).

**e\*\* S. dumanii** Kandemir, G.Ecevit Genç & İ.Genç, in Ann. Bot. Fenn. 46: 71-74 (2009).

(Kandemir et al., 2009)

Type: Turkey, **B7** Erzincan: Keşiş Mountain, Yedigöller, 210 m, 29.vi.2002 *A.Kandemir* (holo. ISTE 83460, iso. ANK, GAZI).

Paratypes: Turkey, **B7** Erzincan: Keşiş Mountain, Yedigöller, 2595 m, 15.viii.2004, *A.Kandemir* (ISTE 83761); *ibid.*, 2759 m, 11.ix.2005, *A.Kandemir* (ISTE 83766).

**e\*\*S. duralii** Bağcı, in Turk. J. Bot. 32: 11-15 (2008).

(Bağcı, 2008)

Type: Turkey, **C4** Karaman: Ermenek-Kazancı, Sarıova Plateau, opposite Kartal Kaya, (Salur

Mountain), mountain steppe, 1750-1770 m, 36°28.546'N, 32°43.904'E, 16.vi.2006, *Y.Bağcı* 3476 (holo. KNYA, iso. GAZI, HUB, Hb. Yildirimli).

**e\*\*S. erciyesdaghensis** Aksoy & Hamzaoğlu, in Bot. J. Linn. Soc. 158: 730-733 (2008). (Aksoy et al., 2008a)

Type: Turkey, **B5** Kayseri: Erciyes Mountain, from Sarıgöl high plateau towards summit, 2900-3200 m, igneous rocky slopes, 04.viii.2006, *Hamzaoğlu* 4435, *Aksoy* & *Budak* (holo. BOZOK Hb., iso. ANK, BOZOK Hb., ERCIYES Hb., GAZI, HUB).

**e\*\*S. kucukodukii** Bağcı & Uysal, in Nord. J. Bot. 25: 306-310 (2007).

(Bağcı et al., 2007)

Type: Turkey, **C4** Konya: Hadim to Dedemli 10 km from Hadim, deeply red soils, depraved *Juniperus* openings, slopes, steppe, at 1500-1600 m, 38°59'917"N, 32°15'626"E, 15.vi.2006, *Ertuğrul* 3694, *Bağcı*, *Uysal* & *Demirelma* (holo. KNYA, iso. GAZI).

**e\*\*S. marschallii** C.A.Meyer subsp. **anamasii** K.Yıldız & Dadandı, in Nord. J. Bot. 28: 332-340 (2010).

(Yıldız et al., 2010)

Type: Turkey, **C3** Konya: Above Dedegüldağ (Anamas), 'Forest observatory station' (Isparta-Konya border), 37°40'510"N, 31°19'781"E, 2100-2250 m a.s.l., 16.vii.2006, *K.Yıldız* & *M.Y.Dadandı* (holo. MUFE 12360, iso. Herbaria of Celal Bayar University, ERCIYES Hb.).

Paratypes: Turkey, **C3** Konya: Dedegüldağ, side of National Park, rocks, 1800 m a.s.l., 13.vii.1995, *H.Özçelik* 7186 (GAZI).

**e\*\* S. ozyurtii** Aksoy & Hamzaoğlu, in Ann. Bot. Fenn. 46: 431-434 (2009).

(Aksoy et al., 2009)

Type: Turkey, **C3** Konya: Derebucak, Çamlık town, Kızıldağ, Üçoluk, 37°21.2'N, 31°39.8'E, 1450 m, 25.vi.2005, *Aksoy* & *Hamzaoğlu* 3695 (holo. BOZOK Hb., iso. BOZOK Hb., ANK, HUB, GAZI).

Paratypes: Turkey, **C3** Konya: Derebucak, Çamlık town, Kızıldağ, Üçoluk, 37°21.2'N, 31°39.8'E, 1455 m, 30.v.2005, *Aksoy*, *Budak* & *Hamzaoğlu* 3651 (BOZOK Hb.); *ibid.*, İncirli, Bayır, 37°22.6'N, 31°35.7'E, 1750 m, 25.vi.2005, *Aksoy* & *Hamzaoğlu*

3734 (ANK, BOZOK Hb., GAZI, HUB); **C3** Isparta: between Sütçüler and Eğridir, 60 km, 1200-1400 m, 22.vi.1996, *Özçelik* 7507 (GAZI).

**CHENOPODIACEAE** (2: 294)

**Corispermum** L. (2: 318)

**e\*\*C. anatolicum** Sukhor., in *Willdenowia* 40:191 (2010).

(Sukhorukov, 2010)

Type: Turkey, Asia Minor, Lycaonia, 5 km a Karapınar opido ad meridiem versus (Konya prov., Karapınar distr.), 12.vii.1971, *Andersen, Hansen, Jensen & Macholm* 2138.

■ **Halothamnus** Jaub. & Spach

**\*H. hierochunticus** (Bornm.) Botsch., in *Novosti Sist. Vyssh. Rast.* 18: 156 (1981).

(Freitag et al., 2009)

S.E. Anatolia. **C7** Şanlıurfa: Akçakale, Öncül village, 350 m, 29.ix.2005, *Atamov* (ANK, GAZI, KAS, ISTE, Herb. Harran, and Rize Univ.); idem., some other places in southern Harran plain, 29.ix.2005 *Atamov* in obs.

**Salicornia** L. (2: 321)

**e\*\*S. freitagii** Yaprak & Yurdakulol in *Ann. Bot. Fenn.* 45: 207-211 (2008).

(Yaprak & Yurdakulol, 2008)

Type: Turkey, **A5** Çorum: Sungurlu, Bahsili village, edge of small lake, 675 m, 29.viii.2004, *A.E. Yaprak* 2004-05 (holo. ANK, iso. GAZI, KAS, MJG).

**COMPOSITAE** (5: 1)

**Achillea** L. (5: 224)

**e\*\*A. hamzaoglui** Arabacı & Budak in *Ann. Bot. Fenn.* 46: 459-463 (2009).

(Arabacı & Budak, 2009)

Type: Turkey, **B5** Kırşehir: Between Kırşehir and Mucur, junction of Bahçecik, Kervansaray Mountain, Hasanpaşa foothill, calcareous, 1400 m, 39°07'376"N, 34°16'829"E, 5.vi.2007, *Arabacı* 2222 & *Budak* (holo. INU, iso. ANK, BOZOK Hb., ERCIYES Hb., GAZI, HUB, ISTE).

Paratype: Turkey, **B5** Kırşehir: Kervansaray Mountain, Hasanpaşa foothill, *Aydoğdu & Hamzaoğlu* 1077 (BOZOK Hb.).

**e\*\*A. sivasica** Çelik & Akpulat, in *Kew Bull.* 63: 485-489 (2008).

(Çelik & Akpulat, 2008)

Type: Turkey, **B6** Sivas: Ulaş, Distr. of Kovalı, Ziyarettepe, serpentine steppe, 39°32'46"N, 37°01'18"E, 1350-1400 m, 26.vi.2005, *Çelik* 7135 & *Akpulat* (holo. CUFH, iso. ISTE).

**Centaurea** L. (5: 465)

**e\*\* C. aksoyi** Hamzaoğlu & Budak, in *Nord. J. Bot.* 27: 16-20 (2009).

(Hamzaoğlu & Budak, 2009)

Type: Turkey, **B5** Yozgat: between Şefahtli and Yerköy, Karanlıkdere valley, Adatepe, 39°34'28"N, 34°40'23"E, 850 m a.s.l., serpentine rocks, 6.vii.2006, *Hamzaoğlu & Budak* 4167 (holo. BOZOK Hb., iso. ANK, BOZOK Hb., ERCIYES Hb., GAZI, HUB).

**\*C. aziziana** Rech.f., *Oesterr. Bot. Z.* 97: 255 (1950).

(Armağan & Ünal, 2009)

E. Anatolia. **B9** Van: between Güzelsu (Hoşap) and Başkale, Güzeldere Pass, steppe and rocky places, 07.vii.2002, 38°08'48"N, 043°059'08"E, 2350 m, *Metin* 2736. Van: Başkale, north-west of Barış village, rocky slope, 09.vii.2007, 38°00'810"N, 43°59'223"E, 2205 m, *M. Ünal* 9911.

**e\*\*C. cadmea** Boiss. subsp. **pontica** Wagenitz ex Köse et Ocağ, in *Nord. J. Bot.* 28: 475-478 (2010).

(Köse et al., 2010)

Type: Turkey, **A3** Zonguldak: Devrek-Eğerci road, Yeşilöz village crossroads, rocky, 330 m a.s.l., 19.vi.2004, 41°05'42.4"N, 31°50'06.2"E, *YBK* 1524 (holo. ESSE, iso. Osmangazi Univ. Herb.).

**e\*\*C. cassia** Boiss. subsp. **dumanii** Dinç, A.Duran & B.Bilgili, in *Biologia* 64(5): 898-901 (2009).

(Dinç et al., 2009)

Type: Turkey, **C6** Adana: Kozan, Göller Yaylası, *Abies cilicica* subsp. *cilicica* forest, 1400 m, 16.vii.2007, *A.Duran* 7575, *M.Dinç & B.Bilgili* (holo. KNYA, iso. GAZI, HUB, Hb. Yıldırımılı).

**e\*\*C. dursunbeyensis** Uysal & Köse, in *Turk J Bot* 33: 41-46 (2009).

(Uysal & Köse, 2009)

Type: Turkey, **B2** Balıkesir: Dursunbey, Alaçam village, Eğriceöz slopes, 10.vii.2005, 39°21'296"N, 28°37'400"E, YBK 1535 (holo. KNYA, iso. ESSE).

Paratype: Turkey, **B2** Balıkesir: Dursunbey, Alaçam village, Eğriceöz slopes, 1390 m, open *Pinus brutia* Ten. forests on limestone, 30.vi.2004, T. Uysal 561 (KNYA).

**e\*\*C. ertugruliana** Uysal, in Ann. Bot. Fenn. 45: 137-140 (2008).

(Uysal, 2008)

Type: Turkey, **A2** Bursa: Harmancık-Bursa arası, kayalar üzeri, 40°04'N, 28°55'E, 342 m, 4.vii.2004, T.Uysal 566 (holo. KNYA).

**e\*\*C. kaynakiae** Daşkın & Yılmaz, in Ann. Bot. Fenn. 46: 474-478 (2009).

(Daşkın & Yılmaz, 2009)

Type: Turkey, **B2** Bursa: Uludağ, Keles, Sorgun-Boğazova, 5 km, 1024 m, 39°54'N, 29°20'E, 1024 m, 10.vii.2006, Kaynak & Daşkın 28079 (holo. BULU).

**\*C. macedonica** Boiss., in Diag. 1.VI.130.

(Wagenitz, 2010)

European Turkey, **A1 (E)** Kırklareli: Between Pınarhisar and Demirköy, clearings of the woodland, 300 m, 09.vi.2006, Budak et. al. 2049, (BOZOG, KNYA; det. Wagenitz).

**e\*\*C. nerimaniae** Kültür, in Nord. J. Bot. 28: 613-616 (2010).

(Kültür, 2010)

Type: Turkey, **C5** İçel: Arslanköy-Yeniköy, 24 km from Arslanköy, 1000 m a.s.l., 24.vi.2004, N. and E. Özhatay, Ş. Kültür, ISTE 82 472 (holo. ISTE).

**\*C. ochrocephala** Wagenitz, in Flora Iranica, Compositae III, 139 b: 389 (1980).

(Uysal et al., 2007)

E. Anatolia. **A8** Hakkari: a Bajirgeh, 22 km versus Yüksekova, 1900 m, 23.vii.1974, K.H.Rechinger 49875 (Herb. Mus. Hist. Natur. Windop. No. 01098).

**e\*\*C. serpentinea** A.Duran & B.Doğan, in Nord J Bot 27: 319-323 (2009).

(Doğan & Duran, 2009)

Type: Turkey, **C5** Kayseri: Yahyalı, between Kapuzbaşı and Aladağ, 15 km, 1080 m a.s.l., 18.vii.2008, A.Duran 8190 and B.Doğan (holo. KNYA, iso. ANK, GAZI, HUB).

**e\*\*C. wagenitziana** Bancheva & Kit Tan, in Phytologia Balcanica 15(1):51-58 (2009).

(Tan et al., 2009)

European Turkey. (sub *Centaurea amplifolia*). **A2 (A)** İstanbul: Kartal, Yakacık, NW ridge of Aydos Tepe, in macchie, 330 m 40°56'N, 29°14'E, 4.xi.1978, coll. E. Tuzlacı (ISTE 41710); loc. ibid., 2.vii.1974, coll. E.Tuzlacı & Y.Doğantan (ISTE 30115, E); loc. ibid., 31.vii.1952, coll. A.Berk 4150 (ISTE); Aydos Dağı, ann. 1993, coll. N.Özhatay (ISTE 69760) Alemdar to Kurtköy, S slopes of Ömerli Baraj (Dam), SW of Paşaköy, rocky ridges, dry grassland, 11.vi.1995, coll. A.J.Byfield & R.Fitzgerald (ISTE 69639).

**e\*\*C. yaltirikii** N. Aksoy, H. Duman & A.Efe, in Nord. J. Bot. 26: 53-56 (2008).

(Aksoy et al., 2008b)

Type: Turkey, **A3** Düzce: Gölyaka, Elmacık Dağı, upper side of Efteni Lake, the road of Güzledere waterfall, slopes of basalt rocks in maquis area, 568 m a.s.l., 19.vii.2003, N.Aksoy 5304 (ISTO 31050, iso. AIBU, GAZI).

Paratype: Turkey, **A3** Düzce: Elmacık Dağı, Konaş Ardi, Melkikderesi, serpentine rocks, 1085 m a.s.l., under and beside *Pinus sylvestris* forest, 9.vii.2006 (Düzce Univ. Herbarium).

**e\*\*C. yaltirikii** N.Aksoy, H.Duman & A.Efe subsp. **dumanii** N.Aksoy & A.Efe, in Journal of Food, Agriculture & Environment 8(3-4): 1212-1215 (2010).

(Aksoy et al., 2010)

Type: Turkey, **A3** Kocaeli: Yuvacık Dam Area, Örnekköy, Örnekköy road's turnout, 431 m, maquis and rocky area, 40°39'311"N, 030°01'094"E, 18.v.2007, N.Aksoy 6656 and N.Güneş (holo. DUOF 1126, iso. GAZI, ISTE, ISTO).

**Cirsium** Mill. (5: 370)

**\*C. candelabrum** Griseb. Spic. Fl. Rumel. 2: 251(1846).

(Yıldız et al., 2009a)

European Turkey. **A1 (E)** Kırklareli: 15 km from Üsküp to Armutveren, 300 m, in mixed forest in the valley, 02.viii.2007, *Yıldız* (16525) & *Dirmenci* (ISTE 84835; EGE, GAZI).

**e\*\*C. ekimianum** Yıldız & Dirmenci in Bot. J. Linn. Soc. 158: 669-673 (2008).

(Yıldız & Dirmenci, 2008)

Type: Turkey, **B8** Erzurum: 10 km from Aşkale to Bayburt, east of Kop Da., steppe, 1800-2000 m, 10.vii.2006, *B.Yıldız* (16270) & *T.Dirmenci* (holo. ISTE, iso. ANK, GAZI).

**e\*\* C. handaniae** Yıldız, Dirmenci & Arabacı, in Ann. Bot. Fenn. 46: 239-243 (2009).

(Yıldız et al., 2009b)

Type: Turkey, **A9** Ardahan: Posof, 7 km from Posof to Türközü, 1800 m, 41°32'000"N, 42°47'500"E, 17.viii.2006, *B.Yıldız* (16333) & *T.Dirmenci* (holo. ISTE, iso. ANK, GAZI, INU).

Paratype: Turkey, **A9** Ardahan: Posof, 7 km from Posof to Türközü, 1800 m, 41°32'000"N, 42°47'500"E, 19.ix.2007, *B.Yıldız* (16731) & *T.Arabacı* (INU).

### ■ **Crassocephalum** Moench

**\*C. crepidioides** (Benth.) S.Moore, in J. Bot. Brit. For. 50: 211 (1912).

(Yıldırım, 2010)

N.E. Anatolia. **A9** Artvin: Borçka, Camili, Düzenli köyü, Gökinav çevresi, 625-675 m, 20.ix.2010, *Ş.Yıldırım* 37351 (Hb. Yıldırım, EGE, HUB).

**Cyanus** Mill. (5: 370)

**e\*\* C. eflanensis** Kaya & Bancheva in Novon 19: 175-177 (2009).

(Kaya & Bancheva, 2009)

Type: Turkey, **A4** Karabük: 10 km W of Eflani town, on dry grassy places in open pine forest, 1020-1031 m, 40°20'25.7"N, 32°42'1.9"E, 6.vi.2007, *Z.Kaya* & *S.Bancheva* 84027 (holo. ISTE, iso. SOM).

**Echinops** L. (5: 609)

**e\*\* E. dumanii** C.Vural, in Turk J Bot 34: 513-519 (2010).

(Vural et al., 2010)

Type: Turkey, **C5** Adana: Yumurtalık, 36°46.371'N, 035°45.420'E, 1-3 m sandy sea shore, 09.ix.2008, *C.Vural* 4744 (holo. ERCIYES Hb., iso. ANK, GAZI, HUB).

**Helichrysum** Gaertner (5: 80)

**e\*\* H. yurterianum** Gemici, Kit Tan, Yıldırım & M.Gemici, in Ann. Bot. Fenn. 45: 223-228 (2008).

(Gemici et al., 2008)

Type: Turkey, **B7** Gümüşhane/Erzincan: Otlukbeli Mountains, east-facing slope with 10% declivity, above radar station on way to Karadağ, mountain steppe and meadow overlying peridotite, 2000-2500 m, 20.vii.2001, *Y.Gemici* 11241 (holo. EGE, iso. herb. Kit).

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

**e\*\*J. cadmea** Boiss. subsp. **nifense** Yıldırım & Şenol, in Ot Sistematiik Botanik Dergisi 17(1): 1-8 (2010).

(Yıldırım & Şenol, 2010)

Type: Turkey, **B1** İzmir: Kemalpaşa, Nif dağı, summit slopes on calcareous soils, 1400 m, 09.vii.2009, *H.Yıldırım* 1406 (holo. EGE 40789, iso. Hb. Yıldırım).

Paratypes: **B1** İzmir: Kemalpaşa, Nif dağı, zirve yakını, 1500 m, 25.v.1971, *Ö.Seçmen* (EGE 8421); **B1** İzmir: Kemalpaşa, Nif dağı yangın kulesi, zirve, 1400-1500 m, 25.vii.1996, *Ö.Seçmen* 4902 (EGE); **B1** İzmir: Kemalpaşa, Nif dağı, alpinik zon, 27.vi.1980, *Ö.Seçmen* 2294 (EGE).

**e\*\* J. tortumensis** A.Duran & B.Dogan, in Nord. J. Bot. 28: 479-483 (2010).

(Doğan et al., 2010a)

Type: Turkey, **A8** Erzurum: Tortum to Erzurum, 7 km, serpentine stony place, 1880 m a.s.l., 40°15.08'N, 41°31.59'E, 31.v.2003, *A.Duran* 6170 (holo. KNYA, iso. GAZI).

**e\*\* J. turcica** B.Doğan & A.Duran, in Biologia 65(1): 28-32 (2010).

(Doğan et al., 2010b)

Type: Turkey, **A2(E)** Kırklareli: Kıyıköy, calcareous stony slopes, 5-10 m, 41°38.283'N, 028°05.661'E, 08.vii.2005, *B.Doğan* 1008 & *A.Duran* (holo. KNYA, iso. ANK, GAZI).



**Lactuca** L. (5: 776)

**e\*\*L. kemaliya** Yıld., in *Ot Sistemantik Botanik Dergisi* 17(2): 1-114 (2010).

(Yıldırım, 2010)

Type: Turkey, **B7** Erzincan: Kemaliye, Başpınar, Armağan köyü, Munzur dağları, harla (bahçe) araları, 1400 m, 21.viii.1980, Ş. *Yıldırım* 3958 (holo. Hb. Yıldırım, iso. HUB).

**Lapsana** L. (5: 785)

**e\*\*L. communis** L. subsp. **intermedia** (Bieb.) Hayek var. **aurantia** Yıld., in *Ot Sistemantik Botanik Dergisi* 17(2): 1-114 (2010).

(Yıldırım, 2010)

Type: Turkey, **A9** Artvin: Borçka, Camili, Düzenli köyü, Ukiyela çevresi, 1125-1175 m, 20.ix.2010, Ş. *Yıldırım* 37308 (holo. Hb. Yıldırım, iso. GAZI, HUB).

Paratype: Turkey, **A9** Artvin: Borçka, Camili, Düzenli köyü, Gökinav çevresi, 625-675 m, 20.ix.2010, Ş. *Yıldırım* 37350, 37356 (Hb. Yıldırım).

**Psephellus** L. (5: 466)

**e\*\* P. coruhensis** A.Duran & M.Öztürk in *Ozean J. Appl. Sci.* 2(1): 103-111 (2009).

(Duran et al., 2009b)

Type: Turkey, **A8** Artvin: between Yusufeli and Sarıgül, 2 km, 630 m, 31.v.2003, stony slopes, 40°50.820'N, 41°32.39'E, A.Duran 6174 (holo. KNYA, iso. ANK, E, GAZI, HUB).

**e\*\* P. erzincani** Wagenitz & Kandemir, in *Willdenowia* 38: 521-526 (2008).

(Wagenitz & Kandemir, 2008)

Type: Turkey, **B7** Erzincan: Ilıç, 117 km from Erzincan to Divriği, gypsum, 5.vi.2007, *Kandemir* 8001 (GAZI, iso. ANK, B, GOET, ISTE).

**e\*\* P. recepîi** Wagenitz & Kandemir, in *Willdenowia* 38: 521-526 (2008).

(Wagenitz & Kandemir, 2008)

Type: Turkey, **B7** Erzincan: Kemah, top of Kömür village, (UTM) 37 503131E, 43 88572N, 1189 m, gypsum, 9.vi.2007, *Kandemir* 8006 (ISTE, iso. B, GAZI, GOET).

**e\*\* P. yusufeliensis** Tugay & Uysal, in *Nord. J. Bot.* 27:134-137 (2009).

(Tugay et al., 2009)

Type: Turkey, **B7** Artvin: Yusufeli, Kayalık yamaç, 790 m a.s.l., 40°57'N, 41°29'E, 8.viii.2007, O.Tugay 5175 & Uysal (holo. KNYA, iso. GAZI, K).

■ **Pseudognaphalium** Kirp.

**e\*\*P. luteoalbum** (L.) Hilliard & B.L.Burt subsp. **turcicum** Yıld., in *Ot Sistemantik Botanik Dergisi* 17(2): 1-114 (2010).

(Yıldırım, 2010)

Type: Turkey, **A9** Artvin: Borçka, Camili, Düzenli köyü, Ukiyela çevresi, karışık orman, 1125-1175 m, 20.ix.2010, Ş. *Yıldırım* 37306 (holo. Hb. Yıldırım, iso. HUB).

**Rhaponticoides** L. (5: 460)

**e\*\* R. aytachii** Bağcı, Doğu & Dinç, in *Nord. J. Bot.* 27: 479-482 (2009).

(Doğu et al., 2009)

Type: Turkey, **C4** Karaman: Sarıveliler, Dumluğöze Village, deprived *Quercus* forest, opening, 1000-1050 m a.s.l., 20.vi.2007, S.Doğu 1398, Bağcı & Dinç (holo. KNYA, iso. GAZI, Hb. Yıldırım).

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

**\*S. ketzkhoveli** Grossh., in *Fl. Kavk.* 4: 240 (1934).

(Hamzaoğlu et al., 2010b)

Turkey, **A8** Artvin: Yusufeli, between Yaylalar and Körahmet, around transmitting station, 2050 m, 21.viii.2008, Hamzaoğlu 5363 & Aksoy (ANK, BOZOK Hb., ERCİYES Hb, GAZI).

**\*S. renzii** Rech. f., in *Fl Iranica.* 122: 48 (1977).

(Doğan & Duran, 2010)

E. Anatolia. **B9** Bitlis: Tatvan, Sapur village, Karz mountain, 1965 m, 38°26.154'N, 042°24.413'E, 06.vii.2009, A.Duran 8646 & B.Doğan (MR, GAZI, ANK, HUB).

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

**\*S. grandidentatus** Ledep., in *Fl. Ross.* 2: 636 (1845).

(Budak et al., 2009)

N.E. Anatolia. **A10** Ardahan: Posof, between Posof and Yurtbekler village, 1200 m, 05.x.2008, Başkent

& *Tekin* (KATO) 7690); *ibid.*, 1300 m, 23.viii.2008, *Hamzaoğlu* 5368, *Budak & Aksoy* (BOZOK Hb.).

\***S. doriiformis** DC. subsp. **doriiformis**, in *Prodr.* 6: 352 (1838).

(Budak et al., 2009)

E. Anatolia. **B9** Van: between Van and Çatak, near Ganispi waterfall, 1750 m, 01.vii.2006, *Hamzaoğlu* 4113, *Aksoy & Budak* (BOZOK Hb.); Van: from Çatak to Van 8 km, 1710 m, 22.vii.2008, *Budak* 2297, *Hamzaoğlu & Aksoy* (BOZOK Hb.); Van: Gevaş, Artos Mountain, c. 2135 m, 14.vii.1954, *P.H.Davis* 22690 & *Polunin* (ANK); Van: Çatak, Dalbastı village, Şeytanderesi, 1350 m, 20.vii.2002, *Bani* 1255 (GAZI); Van: south of Büyük Erek Mountain, 3100 m, 03.viii.1986, *Özçelik* 1101 (VANF 736).

e\*\***S. inops** Boiss. & Balansa subsp. **karamanicus** *Hamzaoğlu & Budak*, in *Turk. J. Bot.* 33: 285-289 (2009).

(Hamzaoğlu et al., 2009)

Type: Turkey, **C4** Karaman: Başyayla-Taşkent arası, 7-9 km, 1810 m, taşlı yamaçlar, 21.vi.2006, *Hamzaoğlu, Budak & Aksoy* 2066 (holo. BOZOK Hb., iso. ANK, BOZOK Hb., ERCIYES Hb., GAZI, HUB).

e\*\***S. munzurdaglarensis** Yild., in *Ot Sistematik Botanik Dergisi* 17(2): 1-114 (2010).

(Yıldırım, 2010)

Type: Turkey, **B7** Tunceli: Ovacık, Munzur dağları, Kepir tepesi, Bellihasan çukurluğu sırtları, 2500-2700 m, 29.vii.1979, *Ş. Yıldırım* 2300 (holo. Hb. Yıldırım, iso. BOZOK Hb., HUB).

**Taraxacum** Wiggers (5: 788)

e\*\* **T. salsitatis** Kirschner, Stepanek Et Yıldırım, in *Folia Geobot.* 33: 391-414 (1998).

(Kirschner & Stepanek, 1998)

Type: Turkey, Anatolia merid., montes Taurus, in declivi sicco petroso in pylis Kiliki prope pagum Topbaksar in valle fl. Pozanti, solo vulcanico, alt. ca. 900 m s.m. (1988 Krişa, cult. no. JS 4207, PRA, no. det. 8840); IT: *ibidem*; PT: Turcia, Anatolia centr., in salso prope pagum Sasgeqit, ca. 10 km situ bor.-occid, ab oppido Ereğli, alt. ca. 1100 m s.m. (1988 Krişa, cult. no. JS 4203, PRA, no. det. 8839); Specimen ceterum: ex semin. *Haertu Dagh* (s.d. Haussknecht JE, no. det. 9187).

e\*\* **T. tuzgoluensis** Yild. & A.Doğru-Koca, in *Ot Sistematik Botanik Dergisi* 12(2): 1-12 (2005).

(Yıldırım & Doğru-Koca, 2005)

Type: Turkey, **B4** Aksaray: Eskil, from Eskil to edges of Tuzgölü 5 km, halophytic steppe, 914 m, 24.ix.2006, *Ş. Yıldırım* 32237 & *A.Doğru-Koca* (holo. Hb. Yıldırım, iso. GAZI, HUB).

e\*\* **T. tuzgoluensis** Yild. & A.Doğru-Koca var. **eskilensis** Yild. & A.Doğru-Koca, in *Ot Sistematik Botanik Dergisi* 12(2): 1-12 (2005).

(Yıldırım & Doğru-Koca, 2005)

Type: Turkey, **B4** Aksaray: Eskil, from Eskil to edges of Tuzgölü 5 km, halophytic steppe, 914 m, 24.ix.2006, *Ş. Yıldırım* 32239 & *A.Doğru-Koca* (holo. Hb. Yıldırım, iso. HUB).

**Tripleurospermum** Schultz Bip. (5: 295)

e\*\***T. griersonii** Yild., in *Ot Sistematik Botanik Dergisi* 17(2): 1-114 (2010).

(Yıldırım, 2010)

Type: Turkey, **B7** Tunceli: Ovacık, Munzur suyu çevresi, 1200 m, 06.vii.1980, *Ş. Yıldırım* 3421 (holo. Hb. Yıldırım, iso. HUB).

Paratype: Turkey, **B7** Tunceli: Ovacık, Munzur suyu kıyısı, çayırılık 1200 m, 18.vi.1979, *Ş. Yıldırım* 1985 (Hb. Yıldırım, HUB).

e\*\* **T. zığanaense** Inceer & Hay.-Ayaz, in *Bot. J. Linn. Soc.* 158: 696-700 (2008).

(Inceer & Hayirlioglu-Ayaz, 2008)

Type: Turkey, **A7** Gümüşhane: Zığana Dağı, between Zığana pass and Torul, 1200-1300 m a.s.l., 6.vii.2006, *Inceer* 216 (holo. KTUB, iso. GAZI).

**BORAGINACEAE** (6: 237)

**Anchusa** L. (6: 388)

e\*\***A. konyaense** Yild., in *Ot Sistematik Botanik Dergisi* 17(2): 1-114 (2010).

(Yıldırım, 2010)

Type: Turkey, **C4** Konya: Selçuk evrenkenti, Keykubat yerleşkesi, konukevi üstü, dikim sedir koruluğu, 1100-1150 m, 18.x.2008, *Ş. Yıldırım* 35335 (holo. Hb. Yıldırım, iso. HUB, KNYA).

e\*\***A. konyaense** Yild. var. **selcukense** Yild., in *Ot Sistematik Botanik Dergisi* 17(2): 1-114 (2010).

(Yıldırım, 2010)

Type: Turkey, **C4** Konya: Selçuk evrenkenti, Keykubat yerleşkesi, konukevi üstü, dikim sedir koruluğu, 1100-1150 m, 18.x.2008, Ş. *Yıldırım* 35336 (holo. Hb. Yıldırım, iso. EGE).

#### CAMPANULACEAE (6: 2)

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

**e\*\*C. ovacikensis** Yild. subsp. **ovacikensis**, in Ot Sistematik Botanik Dergisi 17(2): 1-114 (2010).

(Yıldırım, 2010)

Type: Turkey, **B7** Tunceli: Ovacık, Munzur dağları, Karagöl kepezi (vadisi), Dilap yaylası, 1750-2250 m, 07.vii.1980, Ş. *Yıldırım* 3556 (holo. Hb. Yıldırım, iso. HUB).

Paratypes: Turkey, **B7** Tunceli: Ovacık, Munzur dağları, Kepir tepesi, Bellihasan çukurluğu sırtları, 2500-2700 m, 29.vii.1979, Ş. *Yıldırım* 2297 (Hb. Yıldırım); Ovacık, Munzur dağları, Karagöl kepezi, Dilap deresi başı, 1600 m, 07.vii.1980, Ş. *Yıldırım* 3448 (HUB); Ovacık, Munzur dağları, Dilap yaylası, 2250-2500 m, 08.vii.1980, Ş. *Yıldırım* 3665 (Hb. Yıldırım).

**C. ovacikensis** Yild. subsp. **capitellata** (Dambolt) Yild., in Ot Sistematik Botanik Dergisi 17(2): 1-114 (2010). comb. et stat. nov.

(Yıldırım, 2010)

Basionym: *Campanula ptarmicifolia* Lam. var. *capitellata* Dambolt

Type: Turkey, **B7** Malatya: In monte Göl da., Bornmüller 1893: 3426 (holo. B, iso. E, G, LD, W, WU).

#### CHENOPODIACEAE (2: 294)

##### *Noaea* Moq. (2: 335)

**\*N. major** Bunge, in Mem. Acad. Imp. Sc. Petersb. 7, ser 4. 11: 27 (1862).

(Yıldırım, 2010)

Turkey. **B3** Eskişehir: Sivrihisar, Aşağıkepen köyü yakını, jipsli yerler, 950-1000 m, 27.ix.2008, Ş. *Yıldırım* 35320 (BOZOK Hb, DUF, EGE, GAZI, Hb. Yıldırım, HUB).

##### *Salsola* L. (2: 328)

**e\*\*S. turcica** Yild., in Ot Sistematik Botanik Dergisi 17(2): 1-114 (2010).

(Yıldırım, 2010)

Type: Turkey. **B3** Eskişehir: Sivrihisar, Aşağıkepen köyü yakını, jipsli yerler, 950-1000 m, 27.ix.2008, Ş. *Yıldırım* 35321 (holo. Yıldırım, iso. ANK, DUF, HUB).

#### CUCURBITACEAE (4: 200)

##### *Bryonia* L. (4: 204)

**e\*\*B. flexuosa** Yild., in Ot Sistematik Botanik Dergisi 17(2): 1-114 (2010).

(Yıldırım, 2010)

Type: Turkey, **B7** Tunceli: Ovacık, Karagöl kepezi (vadisi), kayalık ve taşlık alanlar, 1350 m, 30.vi.1983, Ş. *Yıldırım* 5488 (holo. Hb. Yıldırım, iso. HUB).

#### CRASSULACEAE (4: 209)

##### *Prometheum* (A. Berger) H. Ohba (11: 121)

**e\*\* P. chrysanthum** (Boiss.) 't Hart subsp. **uludaghense** Kaynak, Yılmaz & Daşkın, in Ann. Bot. Fenn. 46: 456-458 (2009).

(Daşkın et al., 2009a)

Type: Turkey, **A2** Bursa: Uludağ, Soğukpınar-Karaislah road, 1 km to Soğukpınar, 40°01'N, 29°07'E, 890 m, 24.vii.2005, *Kaynak* 28745 & *Yılmaz* (holo. BULU).

##### *Sempervivum* L. (4: 244)

**S. armenum** Boiss. & Huet subsp. **armenum**, in Boiss., Diagn Ser. 2(2): 60 (1856).

(Karaer & Celep, 2010)

Type: Turkey, Inter Bayburt et Erzurum, in valle Kassaklu, August 1853, A. *Huet* (iso. K)

**S. armenum** Boiss. & Huet subsp. **insigne** (Muirhead) F. Karaer, in Bangladesh J. Bot. 39(1): 1103-105 (2010). stat. nov.

(Karaer & Celep, 2010)

Type: Turkey, Ankara: near Kızılcahamam, c. 1200 m, 22.vii.1956, *McNeill* 284 (holo. E, cult. E)

**S. ekimii** F. Karaer, in Ann. Bot. Fennici 45: 229-232 (2008). nom. et stat. nov.

(Karaer & Celep, 2008)

Type: Turkey, **A7** Giresun: Dereli, Tamdere to İkisü, around tunnel, granite rocks, 1100-1250 m, *F.Karaer* 10125-10126 (OMUB); **A8** Rize: Cimil Da.,

1934, *Ballas* (K); **A8** Rize: Çamlıhemşin, between Yukarı Kavrun plateau and Mezevit, alpine meadows, granite area, 2150-2750 m, *A.Güner* 2897, (HUB); **A8** Rize: Çamlıhemşin, Yukarı Kavrun plateau, between Pornag and Kaçkar M., alpine steppe, granite area, 2750-3010 m, *A.Güner* 2859 (HUB); **A8** Rize: İkizdere, between Gölyayla and Telfeniş, alpine meadows, 2400 m, *A.Güner* 6646 (HUB); **A8** Rize: İkizdere, between Gölyayla and Cihantepe, stony place, 2500-2800 m, *A.Güner* 6578 (HUB); **A8** Rize: Çamlıhemşin, Amlakit plateau, Kaygut to Çovinovit, granite area, alpine steppe, 2200-2750 m, *A.Güner* 1062 (HUB); **A8** Rize: Çamlıhemşin, above Ayder plateau, Yukarı Kavrun, *F.Karaer* 9614-9615 (OMUB).

\***S. sosnowskyi** Ter-Chatsch., in *Zametki Sist. Geogr. Rast.* 13: 17 (1947).

(Karaer et. al, 2010)

N. E. Anatolia, **A9** Artvin: Artvin to Şavşat, Yanıklı village, high plateau, alpine, 16.vii.2000, 1700 m, *F.Karaer* 8681-8683 (OMUB); *ibid.*, 11.viii.2000, 2100 m, *F.Karaer* 8844-8857 (OMUB); *ibid.* 30.vii.2002, 2200-2400 m, *F.Karaer* 9594-9603 (OMUB).

#### CRUCIFERAE (1: 248)

**Alyssum** L. (1: 362)

**e\*\*A. misirdalianum** Orcan & Binzet, in *Novon* 19: 494-496 (2009).

(Orcan & Binzet, 2009)

Type: Turkey, **C5** Mersin Prov.: Fındıkpınarı, Deve Koyağı, 1800 m, stony slopes, 30.vi.2002, *N.Orcan* 500 (holo. ANK, iso. GAZI, MO).

**Brassica** L. (1: 263)

**e\*\*B. beytepeensis** Yild., in *Ot Sistematik Botanik Dergisi* 17(2): 1-114 (2010).

(Yıldırım, 2010)

Type: Turkey, **B4** Ankara: Beytepe, Maslak kepezi (vadisi), yetiştirme karaçam ormanı, 1000 m, 22.vii.2010, *Ş.Yıldırım* 37300 (holo. Hb. Yıldırım, iso. HUB).

**Cardamine** L. (1: 438)

\***C. flexuosa** With., in *Arr. Br. Pl. ed. 3*, 3: 578 (1796).

(Doğru-Koca & Yıldırım, 2004)

N.W. Anatolia. **A3** Düzce: Akçakoca, entrance of Deredibi köyü, stream banks, 40-75 m, 10.v.2003, *A.Doğru-Koca* 2246 (HUB, Hb. YILDIRIMLI).

**Crambe** L. (1: 272)

\***C. hispanica** L., in *Sp. Pl.* 2: 671 (1753).

(Yıldızıtugay et al., 2009)

S. Anatolia. **C4** Mersin: Anamur district, Anamurium Antique City, stony place and roadside, 0-5 m, 17.v.2007, *E.Yıldızıtugay* no:1230. The plant specimens are deposited in KNYA Herbarium.

**Descurainia** Webb & Berth. (1: 486)

**D. sophia** (L.) Webb ex Prantl subsp. **bartschii** (O.E.Schulz) C.Vural, in *Ann. Bot. Fenn.* 46: 65-66 (2009). comb. & stat. nov.

(Vural, 2009)

Type: Turkey, Kleinasien, Erdschias, auf dem Gipfel Ali Dag, 1700 m, 4.v.1930 Bartsch n.4. *Descurainia bartschii* O.E.Schulz, *Notizblatt des Botanischen Gartens und Museums zu Berlin-Dahlem*, 11: 391, 1932.

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

**e\*\*D. anatolica** A.Duran & Dinç, in *Novon* 18:464-468 (2008).

(Duran et al., 2008)

Type: Turkey, Kastamonu: Ilgaz Mtn., Büyük Hacettepe, rock crevices, 1750 m, 10.vii.2006, *A.Duran* 7372 & *M.Dinç* (holo. KNYA, iso. GAZI, HUB).

**e\*\* D. orientalis** Karabacak & Behçet, in *Ann. Bot. Fenn.* 46: 447-450 (2009).

(Karabacak & Behçet, 2009)

Type: Turkey, **B9** East Anatolia region, Van province: Erciş district, north-east of Aksakal village, Kırdekar hill, 2746 m, 39°11'650"N, 43°25'930"E, rocky crevices, 8.vi.2007, *O.Karabacak* 6131 (holo. VANF).

Paratypes: Turkey, East Anatolia region, Van province: Erciş district, north-east of Aksakal village, Kırdekar hill, 2692 m, 39°11'938"N, 43°25'667"E, rocky crevices, 28.v.2007, *O.Karabacak* 6081 (VANF, in flower); *ibid.*, 2715 m, 39°11'648"N, 43°25'883"E, rocky crevices, 29.vii.2007, *O.Karabacak* 7339 (VANF, in fruit).

**Erysimum** L. (1: 466)

\* **E. aucheranum** J. Gay in Erys. Nov. Diagn., 9 (1842).

(Yıldırım, 2008c)

E. Anatolia. **C9** Hakkari: Berçalan yaylası, 2500 m, 21.vii.1977, *M.Koyuncu* & *M.Güneş s.n.* (AEF, Hb. Yıldırım); **C10** Hakkari: Sat dağı, between Varegöz and Satgölü, pastures, 2300 m, 27.vi.1966, *P.H.Davis* 45600 (HUB).

e\*\* **E. bagcii** Yild., in Ot Sistemantik Botanik Dergisi 15(2): 1-80 (2008).

(Yıldırım, 2008c)

Type: Turkey, **B10** Iğdır: Aralık, Topraksu 1 numaralı deneme alanının güneyi, 890 m, 07.vi.1985, *A.Tatlı* & *A.İstanbuluoğlu* 7539 (holo. Hb. Yıldırım, iso. KNYA).

e\*\* **E. baytopiae** Yild., in Ot Sistemantik Botanik Dergisi 15(2): 1-80 (2008).

(Yıldırım, 2008c)

Type: Turkey, **B7** Tunceli: Ovacık, Dilap yaylası ile Koyungölü köyü arası, Munzur dağları, kayalık ve taşlık, 1250-2250 m, 30.vi.1983, Ş. *Yıldırım* 3571 (holo. Hb. Yıldırım, iso. HUB).

e\*\* **E. baytopiae** Yild. var. **asliae** Yild., in Ot Sistemantik Botanik Dergisi 15(2): 1-80, (2008).

(Yıldırım, 2008c)

Type: Turkey, **B7** Tunceli: Ovacık, Karagöl vadisi, Munzur dağları, kayalık ve taşlık, 1350 m, 30.vi.1983, Ş. *Yıldırım* 5494 (holo. Hb. Yıldırım, iso. HUB).

\* **E. boissieri** Polatschek, in Phytion (Horn) 34(2): 200 (1994).

(Yıldırım, 2008c)

E. Anatolia. **B9** Bitlis: Tatvan, Nemrut dağı, Soğukgöl, titrekkavak ve huş ormanı, kayalık, çayırılık, 2200-2300 m, 14.vi.2003, Ş. *Yıldırım* 28916 (Hb. Yıldırım, HUB).

**E. bulgaricum** (Velen.) Ancev & Polatschek, in Ann. Naturh. Mus (Wien) 104B: 691-698 (2003). comb. et stat. nov.

(Ancev & Polatschek, 2003)

Type: European Turkey, Edirne: Argel 9 km NNE Uzunköprü, 200 m, 27.v.1988, *F.Speta* [LI]; - Ca. 10

km SE Edirne in Richtung Iskenderköy, 20.vi.1981, *A.Polatschek* [W]; Edirne, Iskenderköy, 10 km ESE Edirne, trockener *Steppenrasen*, 5.v.1968-8.vi.1968, *K.Bauer*, *K.Fitz*, *F.Spitzenberger* [W]; Kirkklareli, oberhalb Poyrali, Richtung Demirköy, 31.v.1988, *F.Speta* [LI].

e\*\* **E. dincii** Yild., in Ot Sistemantik Botanik Dergisi 15(2): 1-80 (2008).

(Yıldırım, 2008c)

Type: Turkey, **C5** Karaman: Ayrancı, Bolkar dağları etekleri, Çatköy üstü, bozkır, 1870 m, 23.vi.2007, 37°10'908"N, E 33°55'903"E, *M.Dinç* 2969 & *Y.Bağcı* (holo. Hb. Yıldırım, iso. HUB, KNYA).

e\*\* **E. dirmilense** Yild. & Dinç, in Ot Sistemantik Botanik Dergisi 15(2): 1-80 (2008).

(Yıldırım, 2008c)

Type: Turkey, **C2** Burdur: Altınyayla (Dirmil), Oyuklu tepe, bayır, ardıç-karaardıç-ilme karışık ormanı, kuru dere yatağı, 1300-1700 m, 03.vi.2001, Ş. *Yıldırım* 26711 & *M.Dinç* (holo. Hb. Yıldırım, iso. ANK, B, EGE, G, GAZI, HUB, ISTE, K, KNYA, UPA, VANE, W, Hb. PAROLLY).

e\*\* **E. duranii** Yild., in Ot Sistemantik Botanik Dergisi 15(2): 1-80 (2008).

(Yıldırım, 2008c)

Type: Turkey, **B6** Sivas: Taşlıdere, Kayseri yolu, 12. km, Güllüce köyü, tarla kenarı, 1250 m, 21.ix.1985, Ş. *Civelek* 1094 (holo. Hb. Yıldırım, iso. GAZI, HUB).

Paratype: Turkey, **A4** Ankara: Kızılcahamam, Soğuksu Milli Parkı, tenis alanı, 1500 m, 15.vii.1990, Ö. *Eyüboğlu* 1812 (Hb. Yıldırım); **B7** Elazığ: Mollakendi-Hazargölü arası, bozkır, 1450-1550 m, 10.viii.1995, *A.A.Dönmez* 4865 & *H.Aslantaş* (HUB). **B7** Malatya: Pötürge, Kubbe dağı, vali çeşmesi çevresi, 1000 m, 11.vii.1986, *M.Koyuncu* 7362 & *Y.Altan* (AEF, Hb. Yıldırım).

e\*\* **E. euphraticum** Polatschek, in Ann. Naturh. Mus. (Wien) 109B: 147-165 (2008).

(Polatschek, 2008)

Type: Turkey, Birecik: 3 km N Birecik, 500 m, Steppenhögel; 28.iv.1980, *F.Sorger* 80-7-29 (W 2004-00072).

**e\*\* E. guneri** Yild., in *Ot Sistematik Botanik Dergisi* 15(2): 1-80 (2008).

(Yıldırım, 2008c)

Type: Turkey, **B9** Bitlis: Above Adilcevaz, Süphan dağı, barren screes, dry rocky ridge, flowers yellow (ascends to 4300 m), 13,500 ft (4115 m), 26.viii.1954, *P.H.Davis* 24657 & *O.Polunin* (holo. ANK, iso. Hb. Yıldırım).

Paratype: Turkey, **B5** Kayseri: Erciyes dağı, 2410 m, 14.vii.1973, *R.Çetik* 3250 (Hb. Yıldırım).

\* **E. ibericum** (Adams) DC. in *Reg. Veg. Syst. Nat.*, 2: 498 (1821).

(Yıldırım, 2008c)

N.E. Anatolia. **A9** Ardahan: Çıldır, Çıldır gölü batı yakası, bayır, 2050 m, 07.vi.1998, *Ş.Yıldırım* 22212, fl. (GAZI, HUB, Hb. Yıldırım); Çıldır, çay boyunca, 1850 m, 06.vi.1998, *Ş.Yıldırım* 22134, fl. (Hb. Yıldırım); Kars: Susuz, Erdağ güneyi, bozkır, tarla, 1800 m, 11.vii.1998, *H.Ocakverdi* & *B.Kaya* 1222, fr. (Hb. Yıldırım).

**e\*\* E. ikizdereense** Yild., in *Ot Sistematik Botanik Dergisi* 15(2): 1-80 (2008).

(Yıldırım, 2008c)

Type: Turkey, **A8** Rize: Başköy (Cimil), Cermaniman yaylası, Kurusulak çevresi, kayalık, 23.vii.1984, 3000-3150 m, *A.Güner* 6037 & *M.Vural* (holo. HUB).

Paratype: Turkey, **A8** Rize: İkizdere, Anzer köyü üstü, sarp kayalık yamaçlar, 2100-2150 m, 11.vii.1984, *A.Güner* 5835 & *M.Vural* (HUB, Hb. Yıldırım); Çamlıhemşin, Ortayayla köyü, Verçenik yaylası, Puşut çevresi, çarşak, 3000 m, 12.viii.1985, *M.Vural* 3679 (GAZI); Çamlıhemşin, Başköy, Taligor yaylası, çayır, çağıl, 2900-3120 m, 16.viii.1993, *A.Güner* 10822, *A.A.Dönmez* & *M.Öztekin* (Hb. Yıldırım).

**e\*\* E. jacquemoudii** Yild., in *Ot Sistematik Botanik Dergisi* 15(2): 1-80 (2008).

(Yıldırım, 2008c)

Type: Turkey, **A4** Çankırı: Şabanözü, Eldivan dağı, Eldivan'a doğru, Akkaya mevki, 1600 m, 14.vi.1983, *Ş.Yıldırım* 5228 (holo. Hb. Yıldırım, iso. HUB).

**e\*\* E. kartalkayaense** Yild. in *Ot Sistematik Botanik Dergisi* 15(2): 1-80 (2008).

(Yıldırım, 2008c)

Type: Turkey, **A3** Bolu: Aladağ, Kartalkaya, hilly, dry rocky igneous slopes, 2100-2200 m, 12.vii.1962, *P.H.Davis* 37341 & *M.J.E.Coode* (holo. HUB, iso. Hb. Yıldırım).

**e\*\* E. ketenoglui** Yild. in *Ot Sistematik Botanik Dergisi* 15(2): 1-80 (2008).

(Yıldırım, 2008c)

Type: Turkey, **B5** Kırşehir: Mucur, Kurugöl köyü, devlet yolu kıyısı, ekin tarlası içi, 1200 m, 21.v.1989, *Ş.Yıldırım* 12010 (holo. Hb. YILDIRIMLI, iso. HUB).

Paratype: Turkey, **B5** Kırşehir: Mucur, Kurugöl köyünden Ayrı dağlarına doğru, ekin tarlası içi, 1250-1300 m, 21.v.1989, *Ş.Yıldırım* 12156 (Hb. YILDIRIMLI; ANK).

**e\*\* E. kostkae** Polatschek, in *Ann. Naturh. Mus. (Wien)* 109B: 147-165 (2008).

(Polatschek, 2008)

Type: Turkey, Adıyaman: Nemrut Dağ, 2140 m, 8.vi.1973, *F.Sorger* 73-29-27 (holo. W 2004-00073, iso. E).

**e\*\* E. munzuriense** Polatschek, in *Ann. Naturh. Mus. (Wien)* 109B: 147-165 (2008).

(Polatschek, 2008)

Type: Turkey, Erzurum: Mercan Dağları, Munzur Silsilesi Tayran Dağ, 2500 m, NW and W slopes, 15.vii.1967, *Albury, Cheese & Watson* 3358 (holo. E, iso. W 1978-12905, K).

**e\*\* E. pulchellum** (Willd.) J. Gay subsp. **siehanum** Yild. in *Ot Sistematik Botanik Dergisi* 15(2): 1-80 (2008).

(Yıldırım, 2008c)

Type: Turkey, **C5** Mersin: Taurus bei Mersin, Siehe 91 (holo. ANK, iso. Hb. YILDIRIMLI).

**e\*\* E. repandum** L. var. **linnaeanum** Yild. & A. Doğru-Koca, in *Ot Sistematik Botanik Dergisi* 15(2): 1-80 (2008).

(Yıldırım, 2008c)

Type: *Erysimum* [*Hesperis* - deleted] *repandum* *Hesperis* 6 Mill. *Dict. Ard[uino]* 30. (Lectotype designated here: LINN 837.4, Herb. Linn.). Pinned with sheet LINN 837.4

Paratype: Turkey, **B4** Kırıkkale: Keskin'den Akpınar'a, yosunlu ve likenli taşlar arası, 1100-1200 m, 14.iv.2006, 36575531E, 4370381N, Ş. *Yıldırım* 30691 & A. *Doğru-Koca* (Hb. Yıldırım, HUB); **C3** Burdur: Ağlasun, Gürlek, Kızılbel-Bodrum-Ballikkaya-Havacıvalı kaya-Pencereli önü, Domuzkırıği-Kıralın sarayı-Eski Gavur hamamı-Araplar-Gölcük- Hökkem Kayası- Ardıç pınarı-Belibası-Kocakır-Hırsız deresi-İrben pınarı-Şalbalı-Dükkük kaya mevkileri, bahçelikler, 1200-1500 m, 20.iv.1987, Ş. *Yıldırım* 9518 (Hb. Yıldırım); **C3** Isparta: Şarkikaraağaç, Kızıldağ Milli Parkı, Göztepe dağı etekleri, 1200 m, 23.iv.1995, B. *Mutlu* 1284 (HUB); **C4** Konya: Ermenek, Göktepe kasabası, Dumlugöze köyü, Gavur alanı mevkisi, 1200 m, 08.iv.1984, H. *Sümbül* 2731 (Hb. Yıldırım, HUB).

**e\*\* E. rizeense** Yild. in Ot Sistematik Botanik Dergisi 15(2): 1-80 (2008).

(Yıldırım, 2008c)

Type: Turkey, **A8** Rize: Çamlıhemşin, Elevit, Haçevanak aşıtı, erozyonlu yamaçlar, 2950-3000 m, 25.viii.1986, M. *Vural* 4285 (holo. Hb. Yıldırım; iso. HUB).

**e\*\* E. serpentanicum** Polatschek, in Ann. Naturh. Mus. (Wien) 109B: 147-165 (2008).

(Polatschek, 2008)

Type: Turkey, **C1** Muğla: 28 km W Marmaris, 150 m, vulkanisches Gestein, 10.iv.1982, F. *Sorger* & *Buchner* Nr. 82-19A-1 (holo. W 1982-11159, iso. W 2004-00081).

**e\*\* E. sivasicum** Yild. in Ot Sistematik Botanik Dergisi 15(2): 1-80 (2008).

(Yıldırım, 2008c)

Type: Turkey, **B6** Sivas: Taşlıdere, Kayseri yolu 15. km, batı yamaçlar, jipizli yerler, 1500 m, 10.vii.1985, Ş. *Civelek* 1982 (holo. ANK).

\* **E. subulatum** J. Gay in Erys., 8 (1842).

(Yıldırım, 2008c)

E. Anatolia. **B10** Iğdır: Between Iğdır and Orkof, 1150 m, H. *Demiriz* 3422 (E); **B10** Iğdır: Tuzluca çıkışı, kırmızı topraklı yerler, bayır, 1000 m, 31.v.1998, Ş. *Yıldırım* 21890 & A. *Polat* (Hb. Yıldırım).

**e\*\* E. thyrsoideum** Boiss. subsp. **ekicii** Yild. in Ot Sistematik Botanik Dergisi 15(2): 1-80 (2008).

(Yıldırım, 2008c)

Type: Turkey, **B5** Nevşehir: Zelve, Akdağ, volkanik tüf, erozyonlu sarp yamaçlar, 1260 m, 19.vi.1989, M. *Vural* 5273 & ark. (holo. GAZI, iso. Hb. Yıldırım).

Paratype: Turkey, **B5** Nevşehir: Zelve, Akdağ, volkanik tüf, erozyonlu sarp yamaçlar, 1260 m, 19.vi.1989, M. *Vural* 5259 (HUB).

**e\*\* E. tuteliae** Yild. in Ot Sistematik Botanik Dergisi 15(2): 1-80 (2008).

(Yıldırım, 2008c)

Type: Turkey, **B6** Kahramanmaraş: Göksun, Berit dağı, kuzey yamaç, 2000 m, 23.vii.1977, B. *Yıldız* 1333 (holo. HUB, iso. Hb. Yıldırım).

**e\*\* E. tuteliae** Yild. subsp. **doganii** Yild. in Ot Sistematik Botanik Dergisi 15(2): 1-80 (2008).

(Yıldırım, 2008c)

Type: Turkey, **B1** Manisa: Sipil dağı, At alanı güneyi, 1200-1300 m, 24.v.1983, H. *Duman* 1061 (holo. GAZI).

\* **E. verrucosum** Boiss. & Gaill. in Boiss. Diagn. Ser. 2, 6: 12-13 (1859).

(Yıldırım, 2008c)

**C8** Mardin: Between Mardin and Kızıltepe, calcareous rocky slopes, steppe, 900-950 m, 23.vi.1996, Ş. *Yıldırım* 19554 (Hb. Yıldırım; HUB).

**e\*\* E. vuralii** Yild. in Ot Sistematik Botanik Dergisi 15(2): 1-80 (2008).

(Yıldırım, 2008c)

Type: Turkey, **C2** Muğla: Köyceğiz, Hamitköy, Hamitköy-Ekincik arası, kuzey yamaç, kızılçam ormanı, başkalaşımli taşlı yerler, 75 m, 12.iv.2008, Ş. *Yıldırım* 34600 & *Görkem Yıldırım* (holo. Hb. Yıldırım, iso. ANK, B, EGE, G, GAZI, HUB, ISTE, K, KNYA, UPA, VANE, W, Hb. PAROLLY).

Paratype: Turkey, **C2** Muğla: Köyceğiz, Hamitköy, Domuzdireği tepesi, metamorfik kuzey yamaçlar, yangın alanı, 20-50 m, 17.iii.1991, A. *Güner* 8198, H. *Duman* & H. *Şağban* (HUB, Hb. Yıldırım); ibid., 15.iv.1991, A. *Güner* 8652, M. *Vural*, H. *Duman*, A. A. *Dönmez* & B. *Mutlu* (GAZI); Fethiye, Dalaman, between kısık dere and Dalaman çayı, serpentine rocks, 100 m, 02.iv.1956, P. H. *Davis* 25444 & O. *Polunin* (ANK).

**e\*\* E. yaltirikii** Yıld. in Ot Sistematik Botanik Dergisi 15(2): 1-80 (2008).

(Yıldırım, 2008c)

Type: Turkey, **A4** Çankırı: Işık dağı geçidi, bozkır, 1600 m, 06.v.1990, *Z.Aytaç* 3209 (holo. GAZI).

**e\*\* E. yildirimlii** Dinç, in Ot Sistematik Botanik Dergisi 15(2): 1-80 (2008).

(Yıldırım, 2008c)

Type: Turkey, **A9** Kars: Merkezkaraoçoban (Haranvartan) köyü, Samavat dağı, Katıryiyen'den İkiyaka tepesine, çayır, kayalık ve taşlık, dere ve tepe, 2100-2500 m, 23.v.1998, *Ş.Yıldırım* 21358 (holo. Hb. Yıldırım, iso. HUB).

**e\*\* E. zeybekianum** Yıld. in Ot Sistematik Botanik Dergisi 15(2): 1-80 (2008).

(Yıldırım, 2008c)

Type: Turkey, **A8** Artvin: Artvin'den Erzurum'a 15. km, Çoruh vadisi, kayalık ve taşlık, 700 m, 01.vi.1984, *Ş.Yıldırım* 6395 (holo. Hb. Yıldırım, iso. EGE, HUB).

Paratype: Turkey, **A9** Erzurum: Şenkaya, Göle'den Olur'a 22. km, kayalıklar, 1500-1600 m, 27.vi.1998, *Ş.Yıldırım* 22838 (Hb. Yıldırım); **A9** Erzurum: Şenkaya, Artvin'e doğru, Ormanağzı deresinden yukarıya, sağ yamaçlar, çarşak, 1000 m, 27.vi.1998, *Ş.Yıldırım* 22890 (GAZI, Hb. Yıldırım); **A9** Kars: Digor, Halıkışlak üstü, kayalık ve taşlık, 1300-1350 m, 23.vi.1998, *Ş.Yıldırım* 22349 (ANK, Hb. Yıldırım); **A9** Kars: Karakurt, Kars'tan 87. km, Horasan'dan 35. km, Şeytangeçmez deresi boyunca, alkali yamaçlar, 1550-1750 m, 01.vii.1998, *Ş.Yıldırım* 22981 (Hb. Yıldırım); **A9** Kars: Akyaka, Şahnalar köyü, ekin tarlası yanı, kayalıklar, 1550-1650 m, 08.vii.1998, *Ş.Yıldırım* 23696 (Hb. Yıldırım).

**Hesperis** L. (1: 452)

**e\*\*H. anatolica** A. Duran, in Novon 18: 453-463 (2008).

(Duran, 2008)

Type: Turkey, **C5** Adana: Pozantı, betw. Hamidiye and Karakuz (Çamlıbel), 4 km, serpentine pebbly slopes, open *Pinus* forest, scrub, 1400 m, 37°32.30'N, 34°00.38'E, 16.v.1999, *A.Duran* 4498 (holo. KNYA,

iso. ANK, E, GAZI, HUB).

**e\*\*H. hamzaoglu** A. Duran, in Novon 18: 453-463 (2008).

(Duran, 2008)

Type: Turkey, **C5** Osmaniye: Amanos Mtn., Zorkun, Keldazı hill, 1750 m, 36°58.95'N, 36°24.22'E, 20.v.2001, *A.Duran* 5694 & *Hamzaoglu* (holo. KNYA, iso. ANK, E, GAZI, HUB).

**e\*\* H. ozcelikii** A. Duran, in Ann. Bot. Fenn. 46: 577-584.

(Duran, 2009)

Type: Turkey, **C3** Isparta: Sütçüler, 17 km from Ayvalıpınar to Kesme, 1025 m, 37°36.53'N, 31°10.26'E, 11.vi.1999, *A.Duran* 4636, *H.Özçelik* & *Sağiroğlu* (holo. KNYA, iso. GAZI, ANK, HUB).

Paratype: Turkey, **C3** Isparta: Sütçüler, 17 km from Ayvalıpınar to Kesme, 1025 m, 37°36.53'N, 31°10.26'E, 4.viii.1999, *A.Duran* 4973 (KNYA), 9.vi.2000, *A.Duran* 5262 & *H.Özçelik* (KNYA); Isparta: Sütçüler, between Ayvalıpınar and Kesme, 130 m, 11.v.1997, *H.Özçelik* 7714 (SDÜH).

**e\*\*H. varolii** A. Duran, in Ot Sistematik Botanik Dergisi 12(2): 19-30 (2005).

(Duran, 2005)

Type: Turkey, **C2** Muğla: Gökova- Marmaris yolu, Marmaris'in görüldüğü tepeden sola, 5.km, 27.iv.2002, 500-600 m, 36°53.76'N, 28°17.95'E, *A.Duran* 5847 & *Varol* (holo. KNYA, iso. ANK, E, GAZI, HUB, Hb. Yıldırım).

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

**\*M. intermedia** C. A. Mey., in Verz. Pflanz. Cauc.: 186 (1831).

(Ünal & Özgökçe, 2008)

N.E. Anatolia. **A9** Kars: south-east of Halıkışlak village, around Aras River, slightly saline, sandy banks, 06.v.2006, 974 m, 40°07'388" N, 043°37'752"E, *M.Ünal* & *F.Özgökçe* 9182 (in flower), 9294 (in fruit).

■ **Pseudosempervivum** (Boiss.) Grossh.

**P. amanum** (Contandr. & Quézel) Al-Shehbaz, Mutlu et Dönmez, in Turk. J. Bot. 31: 327-336 (2007). comb. nov.



(Al-Shehbaz et al., 2007)

Type: Turkey, Amanus, 15 km SE Osmaniye, 2000 m, 30.vi.1973, *P.Quézel & J.Contandriopoulos* 73-434 (holo. MARS).

Basionym: *Cochlearia amana* Contandr. & Quézel, Bull. Soc. Bot. Fr. 123: 418. 1976.

**P. gurulkanii** (Yıld.) Mutlu & Al-Shehbaz & Dönmez, in Turk. J. Bot. 31: 327-336 (2007). comb. nov.

(Al-Shehbaz et al., 2007)

Type: Turkey, **C9** Şırnak: Foot of Namaz Mountain, from Yaylabaşı via limekiln to centrum, steppe, rocky quercetum (*Q. brantii* Lindley) places, 1700-1900 m, 21.vi.2005, Ş. *Yıldırım* 30169 (holo. Hb. Yıldırım, iso. HUB).

Basionym: *Cochlearia gurulkanii* Yıld., Ot Sistemik Botanik Dergisi, 12(1): 1-8 2005.

**Rorippa** Scop. (1: 431)

**e\*\* R. behcetii** İlçim, in Ann. Bot. Fenn. 45: 485-487 (2008).

(İlçim, 2008)

Type: Turkey, **C6** Kahramanmaraş: Türkoğlu, Gavurgözü (marsh) Bataklığı, 400 m, 3.iv.2005, A. *İlçim* 1617 (holo. KSUH, iso. VANE, Hb. Yıldırım).

**e\*\* R. edirnense** Yıld., in Ot Sistemik Botanik Dergisi 17(2): 1-114 (2010).

(Yıldırım, 2010)

Type: Turkey, **A1** Edirne: Meriç ırmağı kıyısı, Tunca ırmağıyla birleştiği yere dek, kumullar, tarla kıyıları, 155 m, 30.v.2010, Ş. *Yıldırım* 36906 & G. *Yıldırım* (holo. Hb. Yıldırım, iso. EDTU, HUB).

Paratype: Turkey, **A1** Edirne: Meriç ırmağı kıyısı, karakavak ormanı, kumlu yerler, 130 m, 30.v.2010, Ş. *Yıldırım* 36876 & G. *Yıldırım* (Hb. Yıldırım, GAZI, KNYA).

**ELAEAGNACEAE** (7: 532)

**Elaeagnus** L. (7: 533)

**e\*\*E. angustifolia** L. var. **turcicus** Yıld., in Ot Sistemik Botanik Dergisi 17(2): 1-114 (2010).

(Yıldırım, 2010)

Type: Turkey, **B5** Nevşehir: Avanos, Kızılırmak kıyısı, harla arası, y. 1000 m, 28.v.1978, Ş. *Yıldırım* 1041 (holo. Hb. Yıldırım, iso. HUB).

**ERICACEAE** (6: 89)

**Vaccinium** L. (6: 100)

**e\*\* V. myrtillus** L. var. **artvinense** Akpulat & Eminagaoglu, in Annals of Agrarian Science 8(1): 144-146 (2010).

(Eminağaoğlu & Akpulat, 2010)

Type: Turkey, **A9** Artvin: Savsat, Karagöl-Sahara National Park, subalpine vegetation, 15.vii.2000, 2100 m, 41°13'17"N, 42°29'18" E, ÖE 2279 (holo. CUFH, iso. ACUH, ISTE).

**EUPHORBIACEAE** (7: 566)

■ **Acalypha** L.

**\*A. australis** L., in Sp. Pl. 2: 1004. 1753.

(Duman & Terzioğlu, 2009)

N.E. Anatolia. **A8** Trabzon: Of (Town), Ballica village, Solaklı stream bed, 9 km south of the Black Sea, 25.ix.2007, 25m, HD 9900; Kumludere köyü, 06.ix.2008, 160 m, KATO 16741; **A7** Trabzon: Karadeniz Technical University, Kanuni Campus, 17.ix.2008, 60 m, KATO 16742.

**GERANIACEAE** (2: 450)

**Erodium** L'Herit (2: 475)

**e\*\*E. aytacii** Yıld. & A.Doğru-Koca, in Ot Sistemik Botanik Dergisi 11(1): 1-6 (2004).

(Yıldırım & Doğru-Koca, 2004)

Type: Turkey, **B6** Malatya: From Gürün to Darende, 15 km before Darende, hilly steppe, calcareous stony slopes, 1400-1500 m, 37366614E, 4274484N, 16.iv.2006, Ş. *Yıldırım* 30767 & A. *Doğru-Koca* (holo. Hb. Yıldırım (YO), iso. GAZI, HUB).

**Geranium** L. (2: 451)

**\*G. macrorrhizum** L., in Sp. Pl. 680 (1753).

(Öner et al., 2010)

W. Anatolia. **B1**: Balıkesir: Erdek, Kapıdağ Peninsula, slopes, shady and wet areas, meadows and especially under *Castanea sativa*, *Carpinus betulus*, *Fagus orientalis*, *Platanus orientalis*, and *Tilia tomentosa* groups, on brown forest soil where on the granite and granodiorite main rock, 200-650 m, 27.v.2008, H. *Öner* 646. (EGE).

**GLOBULARIACEAE (7: 27)**

**Globularia L. (7: 27)**

**e\*\*G. anatolica** A.Duran, Ö.Çetin & M.Öztürk, in Nord. J. Bot. 27: 232-237 (2009).

(Duran et al., 2009a)

Type: Turkey, **C2** Denizli: Honaz, Menteş village, vicinity of gypsum mine, 924 m a.s.l., 17.vi.2008, 37°44.147'N, 29°20.026'E, A.Duran 8060, Ö.Çetin & M.Öztürk (holo. KNYA, iso. ANK, GAZI, HUB).

**GUTTIFERAE (2: 355)**

**Hypericum L. (2: 355)**

**e\*\*H. musadoganii** Yıld., in Ot Sistematiik Botanik Dergisi 17(2): 1-114 (2010).

(Yıldırım, 2010)

Type: Turkey, **C5** Niğde: Ulukışla, Çiftahan, Horozköy, Bolkar dağları, Kızıltepe, Gevençukuru mevki, taşlık ve kayalık, 2500-2750 m, 31.vii.1984, Ş.Yıldırım 7253 (holo. Hb. Yıldırım, iso. HUB).

**e\*\*H. sechmenii** Ocak & Koyuncu, in Ann. Bot. Fenn. 46: 591-594 (2009).

(Ocak et al., 2009)

Type: Turkey, **B3** Eskişehir: Günyüzü, Arayit dağı, 1750-1820 m, rock crevices, 39°18.243'N, 31°44.851'E, 10.vi.2006, A.Ocak 5345 (holo. Eskişehir Osmangazi Univ. Herb., iso. GAZI, HUB).

**LABIATEAE (7: 36)**

**Clinopodium L. (7: 329)**

**e\*\*C. hakkaricum** Dirmenci & Fırat, in Ann. Bot. Fenn. 46: 451-455 (2009).

(Fırat & Dirmenci, 2009)

Type: Turkey, **C9** Hakkari: 37 km from Hakkari to Çukurca, S of Üzümlü village, Zap valley, 37°28'067"N, 43°30'618"E, rocky crevices, 1062 m, 5.ix.2007, M.Fırat 10202 & T.Dirmenci (holo. GAZI, iso. E, HUB, ISTE, M).

Paratypes: Turkey, **C9** Hakkari: ca. 20 km from Hakkari to Çukurca, Zap valley, rocky crevices, ca. 1200 m, 09.vi.2006, M.Fırat 10125 & T.Dirmenci & M.Armağan (GAZI, M); 37 km from Hakkari to Çukurca, S of Üzümlü village, 37°28'067"N, 43°30'618"E, rocky crevices, 1062 m, 24.vi.2007, T.Dirmenci 3427 (GAZI, M).

**Eremostachys Bunge (7: 100)**

**E. tournefortii** Jaub. et Spach, in III. Pl. Or. 5: 12 (1854). stat nov.

(Karavelioğulları et al., 2008a)

E. Anatolia. **B10** Ağrı: Doğubeyazıt, Topçatan village, 1,550 m, 09.vi.2001, volcanic slopes, FAK 3064 (GAZI), Ibid., FAK 3065 (GAZI); Ibid. 07.vi.2002, stepe, M.Ekici 2399 (GAZI); Ibid., M.Ekici 3128 (GAZI); Ibid., 1,600 m, 18.viii.2005, calcareous stony slopes, FAK 3483 (GAZI); Ibid, MEU 2106a (GAZI).

■ **Lophanthus** Adans.

**e\*\*L. turcicus** Dirmenci, Yıldız & Hedge, in Turk. J. Bot. 34: 123-129 (2010).

(Dirmenci et al., 2010)

Type: Turkey, **B9** Van: Çatak, Kavuşşahap mountain, Krapet pass, between Çatak and Bahçesaray, rocky and stony north slope, 2750 m, Yıldız (16959), Dirmenci & Fırat (holo. GAZI, iso. E, HUB, ISTE, K, M, W).

**Salvia L. (7: 400)**

**\*S. aristata** Aucher ex Benth. in DC., Prodr. 12: 270 (1848).

(Behçet & Avlamaz, 2009)

E. Anatolia. **B10** Van: Başkale district, Mor Mountain, Çaldıran village, south slopes of Mustepe Hill, steppe, 2000-2200 m, 16.vi.2007, D.Avlamaz & L.Behçet (DA 358); Başkale district, Mor Mountain, north of Tutuklu village, slopes area, steppe, 1900-1950 m, 14.vi.2007, D.Avlamaz & L.Behçet (DA 532).

**e\*\*S. ekimiana** Celep & Doğan, in Ann. Bot. Fenn. 47: 63-66.

(Celep & Doğan, 2010)

Type: Turkey, Central Anatolia, **B5** Yozgat: Above Akdağmadeni, Aktaş region, 39°35'157"N, 35°50'014"E, 1793 m, open *Pinus sylvestris* forest and alpine stepe, 16.vi.2007, F.Celep 1214 (holo. ANK, iso. E, K, GAZI).

Paratype: Turkey, **B5** Kayseri: Felahiye, Büyük Toraman Kasabası, Akdağ, 2000 m, 9.vi.2005 A.Duran 7019 (GAZI).

**e\*\*S. ertekinii** Yıld. in Ot Sistematiik Botanik Dergisi 15(1): 1-8 (2008).

(Yıldırımli & Ertekin, 2008)

Type: Turkey, **C9** Siirt: Aydınlar (Tillo), towards Çatılı köyü, steppe, clearings of quercetum (*Quercus brandii* Lindl), meadows, 1400-1450 m, 16.vi.2007, Ş. *Yıldırımli* 33968 & A.S. *Ertekin* (holo. Hb. Yıldırımli, iso. ANK, DUF, GAZI, HUB).

\***S. macrosiphon** Boiss Diagn. Pl. Or. Nov. Ser. 1, 5: 11 (1844).

(Kahraman et al., 2009)

E. Anatolia. **C8** Diyarbakır: Mardin to Diyarbakır, 14 km before Çınar, 759 m, field edges, 37°39'16"N, 40°28'21"E, 24.v.2007, A. *Kahraman* 1382.

e\*\***S. marashica** İlçim, Celep & Doğan, in Ann. Bot. Fenn. 46: 75-79 (2009).

(İlçim et al., 2009)

Type: Turkey, **C6** Kahramanmaraş: Yukarı Ceyhan vadisi (upper Ceyhan valley), Ahır Dağı, (Ahır Mt.), around Maksutlu village, 1450-1600 m, rocky places, 17.iv.2001, A. *İlçim* 995 (holo. KSUH, iso. ANK, E, GAZI, K, VANF).

e\*\***S. sericeotomentosa** Rechinger f. var. **hatayica** Celep & Doğan, in Novon 19: 432-435 (2009).

(Celep et al., 2009b)

Type: Turkey, **C6** Hatay: Samandağ to Arsuz, among *Quercus coccifera* shrubs, 36°12'734"N, 35°51'218"E, 20-50 m, 19.vi.2007, F. *Celep* 1232 & G. *Akgül* (holo. GAZI, iso. ANK, E, K, MO).

Paratype: Turkey, **C6** Hatay: Samandağ to Arsuz, 36°12'734"N, 35°51'218"E, 25.vii.2006, S. *Bagherpour* & F. *Celep* 1197b (ANK); Samandağ to Arsuz, 36°12'736"N, 35°51'218"E, 19.vi.2007, F. *Celep* 1232 (ANK); Arsuz to Samandag, 36°13'393"N, 35°50'711"E, 02.v.2008, G. *Akaydın* & F. *Celep* 1403 (ANK).

\***S. viscosa** Jacq. Misc. 2: 328 1781.

(Celep et al., 2009a)

Turkey, **C6** Hatay: Between Yayladağ and Antakya, 22 km on the old road, 3.vii.2001, 1000 m, *Laurus nobilis* L. altı, A. *Duran* 5735.

**Stachys** L. (7: 199)

e\*\***S. cretica** L. subsp. **kutahyensis** Akçiçek, in Turk J Bot, 34: 1-6 (2010).

(Akçiçek, 2010)

Type: Turkey, **B2** Kütahya: 20 km from Tavşanlı to Harmancık, stony places, 39°39'230"N, 029°16'613"E, 850 m, 07.vi.2007, Akçiçek 4609 & *Dirmenci* (holo. GAZI, iso. ANK, HUB, ISTE).

Paratypes: Turkey, **B2** Kütahya: 20 km from Tavşanlı to Harmancık, stony slopes, 39°39'122"N, 029°17'228"E, 870 m, 04.vi.2008, Akçiçek (5077) & *Dirmenci*; **B2** Kütahya: 24 km from Tavşanlı to Harmancık, forest openings, 850 m, 06.vii.2007, Akçiçek 4726; **B2** Balıkesir: 9 km from Dursunbey to Harmancık, forest openings, 39°37'981"N, 028°46'192"E, 235 m, 04.vi.2008, Akçiçek (5099) & *Dirmenci*.

e\*\***S. ketenoglui** Kaynak, Daşkın & Yılmaz, in Nord. J. Bot. 27: 238-242 (2009).

(Daşkın et al., 2009b)

Type: Turkey, **C5** Mersin: Tarsus, Çamlıyayla, 37°09'N, 34°45'E, limestone rocks, 430 m a.s.l., 12.v.2008, Kaynak 29795 (holo. BULU).

e\*\***S. marashica** İlçim, Çenet & Dadandı, in Ann. Bot. Fenn. 45: 151-155 (2008).

(İlçim et al., 2008)

Type: Turkey, **C6** Kahramanmaraş: Andırın, between Başkonuş mountain and Sarımsak mountain, Efil ağzı, on limestone rocks, 615 m, 10.v.2003, A. *İlçim* 1299 (holo. KSUH, iso. VANF).

Paratypes: Turkey, **C6** Kahramanmaraş: Andırın, Harboğazı, on limestone rocks, 385 m, 26.v.2004, A. *İlçim* 1519 (KSUH); **C6** Kahramanmaraş: Andırın, Kabakkesme, on limestone rocks, 875 m, 26.v.2004, A. *İlçim* 1521 (KSUH).

e\*\***S. namazdaghensis** Yıld., in Ot Sistematiği Botanik Dergisi 17(2): 1-114 (2010).

(Yıldırımli, 2010)

Type: Turkey, **C9** Şırnak: Gabar dağı ile Namaz dağı arası, İzvakiye bulağından (çeşmesinden) yayla başına, kayalık, meşelik, bozkır, 1800-2000 m, 21.vi.2005, Ş. *Yıldırımli* 30142 (holo. Hb. Yıldırımli, iso. HUB).

e\*\***S. pseudobombicina** Kaynak, Daşkın & Yılmaz, in Nord. J. Bot. 28: 341-343 (2010).

(Yılmaz et al., 2010)

Type: Turkey, **C3** Antalya: Küçükçaltıcak, 34°46'N, 30°34'E, under *Pinus brutia* canopy, 10 m a.s.l., 15.v.2008, *G.Kaynak* 29795 (holo. BULU).

Paratype: Turkey, **C3** Antalya: Küçükçaltıcak, 34°46'N, 30°34'E, under *Pinus brutia* canopy, stony places, 10 m a.s.l., 16.v.2009, R. Daşkın 31338 (BULU).

**Teucrium** L. (7: 53)

\* **Teucrium melissoides** Boiss. & Hausskn. Ex Boiss., in *Flora Orientalis* 4: 813 (1879).

(Dönmez et al., 2010)

E. Anatolia. **C9** Şırnak, 12.5 km from Uludere road junction to Beytüşşebap, around the spring, wet places, 37°23'353"N, 42°54'026"E, 1070 m, 18. vi. 2003, *AA.D.* 11230 & *B.Mutlu* (HUB, INU).

**LEGUMINOSAE** (3: 10)

**Astragalus** L. (3: 49)

e\*\* **A. adiyamanensis** Podlech & Ekici, in *Feddes Repertorium* 119(1-2): 24-36 (2008).

(Podlech & Ekici, 2008)

Type: Turkey, Ak Dag Cappadociae, 1837, *P.M.B. Aucher-Eloy* 1331 (holo. G).

e\*\* **A. aladagensis** Ekici & Podlech, in *Feddes Repertorium* 119 (1-2): 24-36 (2008).

(Podlech & Ekici, 2008)

Type: Turkey, **C5** Adana/Niğde: Aladağ, NW part, Narpiz valley ca. 6 km SE of the village of Demirkazık, 37°45'N, 35°08'E, 2700-2800 m a.s.l., limestone screes, 23.vii.1984, *G.Görk*, *P. Hartvig* & *A.Strid*, *Strid* et al. 23901 (holo. MSB, iso. C).

e\*\* **A. ansinii** Uzun, Terzioğlu & S. Palabaş-Uzun, in *Nord. J. Bot.* 27: 397-401 (2009).

(Uzun et al., 2009)

Type: Turkey, **A7** Trabzon: Maçka, Çeşmeler district, stony places in pseudo-macchie, ca 632 m a.s.l., 11.vii.2008, 40°46'58"N, 39°33'49"E, *A. Uzun* 493 (KATO).

Paratype: Turkey, **A7** Trabzon: Maçka, Çeşmeler district, stony places in pseudo-macchie, ca 750 m a.s.l., 18.vi.2008, 40°47'20"N, 39°33'59"E, *A.Uzun* 492 (KATO).

\* **A. apricus** Bunge, in *Mém. Acad. Imp. Saint Petersburg* 11(16): 40 in clave [et 1.c. 15(1): 58. 1869].

(Podlech & Ekici, 2008)

C. Anatolia. **B5** Nevşehir: Göreme, 1200 m a.s.l., 17.vii.1969, *Sorger* 69-63-18 (MSB).

e\*\* **A. bahcesarayensis** Akan, Fırat & Ekici, in *Bot. J. Linn. Soc.* 156: 439-444 (2008).

(Akan et al., 2008)

Type: Turkey, **B9** Van: Bahçesaray, Karabel (Kirapit) pass, 3200-3400 m, stony places, 5.viii.2004, *M.Fırat* 4221 (holo. GAZI, iso. E, MSB, W).

e\*\* **A. calvertii** Podlech & Ekici, in *Feddes Repertorium* 119(1-2): 24-36 (2008).

(Podlech & Ekici, 2008)

Typus: sine loco distincto, 'Armenia' [most probably Eastern Anatolia (before 1867), *H.H.Calvert* & *J.Zohrab* (holo. E)].

e\*\* **A. darendensis** Podlech & Ekici, in *Feddes Repertorium* 119(1-2): 24-36 (2008).

(Podlech & Ekici, 2008)

Type: Turkey, **B6** Malatya: 33 km E of Darende at road to Hekimhan, 1220 m, 04.vi.1987, *M.Nydegger* 42631 (holo. MSB, iso. BASBG).

\* **A. davisii** D.F.Chamb & V.A.Matthews in *Notes Roy. Bot. Gard. Edinburgh* 29: 308 (1969).

(Podlech & Ekici, 2008)

E. Anatolia. **B9** Van: Erek Dag, above Değirmenköy, 3200 m a.s.l., 06.vi.1966, *Davis* 44465 (holo. E).

\* **A. dzhebrailicus** Grossh Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk SSSR 10: 100 (1947).

(Podlech & Ekici, 2008)

E. Anatolia. **B9** Van: Pelli Dağ, 54 km WSW of Van, 3000 m a.s.l., 42°50'E, 38°20'N, 09.vii.1971, *Edmondson* 639 (W).

\* **A. expetitus** Maassoumi, in *Irab. J. Bot.* 6: 204 (1994).

(Podlech & Ekici, 2008)

E. Anatolia. **B9** Van: 15 km nördlich Muradiye, 1900 m a.s.l., 02.vii.1981, *Sorger* 81-10-1 (W).

**e\*\* A. guzelsuensis** F.Ghahrem. Nejad, Behçet & Demir, in Ann. Bot. Fenn. 46: 151-154 (2009).

(Ghahremaninejad et al., 2009)

Type: Turkey, **B9** Van province, Güzelsu (Hoşap) district, between Zerne Dam and Üçgen village, rocky slopes, grassy steppe, 2063 m, 12.v.2007, *İbrahim Demir* 125 [in flowering state] (holo. VANF, iso. FAR, GAZI, VANF, W).

Paratype: Turkey, East Anatolia region, Van province: Güzelsu (Hoşap) district, between Zerne Dam and Üçgen Village, rocky slopes, grassy steppe, 2063 m, 10.vi.2007, *İbrahim Demir* 496 (in fruiting state).

**e\*\* A. helbaekii** Podlech & Ekici, in Feddes Repertorium 119 (1-2): 24-36 (2008).

(Podlech & Ekici, 2008)

Type: Turkey, **C4** Konya: Küçük Köy, 40 km SE Konya, 23.vi.1962, *H.Helbaek* 2626 (holo. C).

**e\*\* A. horasanicus** Podlech, in Feddes Repertorium 119 (1-2): 24-36 (2008).

(Podlech & Ekici, 2008)

Type: Turkey, **B9** Agri: in jugo Saç Geçidi inter Agri (Karaköse) et Horasan, 2000-2500 m a.s.l., 03.viii.1965, *K.H.Rechinger* 32770b (holo. M, iso. W).

**e\*\* A. mahmutlarensis** Podlech, in Feddes Repertorium 119 (1-2): 24-36 (2008).

(Podlech & Ekici, 2008)

Type: Turkey, **C4** Province Antalya: ca. 35 km NE Mahmutlar (Alanya), 1270 m a.s.l., 11.vi.2002, *R.Ulrich* A/20 (holo. MSB).

**\*A. mirus** Sosn., in Trudy Tbilissk. Bot. Inst. 12: 230 (1948).

(Podlech & Ekici, 2008)

C. Anatolia, Çoruh: distr. Artvin, in valle fl. Aravet-su, infra p. Tanzot, 16.v.1907, *G.Woronow* (TBI); Ardanuç – Kordevan dag (Artvin -Ardahan), 1100 m a.s.l., 26.vi.1957, *Davis & Hedge D.* 30086 (E).

**e\*\* A. mugliensis** Podlech & Ekici, in Feddes Repertorium 119(1-2): 24-36 (2008).

(Podlech & Ekici, 2008)

Type: Turkey, **C2** Muğla: Ak Dağ, west side, 1900 m a.s.l., 11.vii.1984, *P.Hartvig, Özcan Seçmen & A.Strid, Strid* et al. 23494 (holo. MSB, iso. C).

**e\*\* A. munzurensis** Yıld., in Ot Sistemantik Botanik Dergisi 17(2): 1-114 (2010).

(Yıldırım, 2010)

Type: Turkey, **B7** Tunceli: Ovacık, Karagöl kepezi (vadisi), kayalık ve taşlık alanlar, 1350 m, 30.vi.1983, *Ş.Yıldırım* 5455 (holo. Hb. Yıldırım, iso. HUB).

Paratype: Turkey, **B7** Tunceli: Ovacık, Karagöl kepezi, kayalık ve taşlık alanlar, 1350 m, 30.vi.1983, *Ş.Yıldırım* 5443 (Hb. Yıldırım).

**e\*\* A. nigropedunculatus** Podlech & Ekici, in Feddes Repertorium 119(1-2): 24-36 (2008).

(Podlech & Ekici, 2008)

Typus: Turkey, **B9** Van: distr. Gevas, Artos Dag, 12,000 ft, summit ridge, 15.vii.1954, *P.Davis* 22,882 & *O.Polunin* (holo. K).

**e\*\* A. pseudovegetus** Podlech & Ekici, in Feddes Repertorium 119(1-2): 24-36 (2008).

(Podlech & Ekici, 2008)

Type: Turkey, **B9** Bitlis: in jugo Kuzgunkivan Geçidi inter Gevash et Reshadiye, 2200 m, 01.vii.1975, *K.H.Rechinger* 53904 (holo. M, iso. MSB, W).

**e\*\* A. rausianus** Podlech & Ekici, in Feddes Repertorium 119(1-2): 24-36 (2008).

(Podlech & Ekici, 2008)

Type: Turkey, **A4** Çankiri: Devres-Tal östlich von Ilgaz, trockene, beweidete Hange nördlich des Flusses, 1200m a.s.l., 05.viii.1982, *TH.Raus* 6910 (holo. B).

**e\*\* A. sakaryaensis** Podlech, in Feddes Repertorium 119(1-2): 24-36 (2008).

(Podlech & Ekici, 2008)

Type: Turkey, **A3** Sakarya: Geyve-Tarakli, ca. 2 km from Tarakli to Geyve, ca. 1 km from the bridge over the river Aksu to Geyve, 520 m a.s.l., 23.v.1990, *R.Lampinen* 7795 (holo. E, iso. H).

**e\*\* A. suserianus** Podlech & Ekici, in Feddes Repertorium 119(1-2): 24-36 (2008).

(Podlech & Ekici, 2008)

Type: Turkey, **B6** Sivas: 50 km SWW of Suseri, 1800 m, 12.vii.1971, *Jan Steen Andersen* et al. 2210 (holo. C, iso. E.).

**e\*\* A. trabzonicus** Ekici, Aytaç & Akan, in Bot. J. Linn. Soc. 157: 741-747 (2008).

(Ekici et al., 2008)

Type: Turkey, **A8** (Trabzon) Bayburt: Araklı 41 km, steppe, 2300 m, 10.vii.2002, 40°29'273"N, 39°58'677"E, *M.Ekici* 3046, *Z.Aytaç* & *H.Akan* (GAZI).

**e\*\* A. tunceliensis** Podlech & Ekici, in Feddes Repertorium 119(1-2): 24-36 (2008).

(Podlech & Ekici, 2008)

Type: Turkey, **B7** Tunceli: Hozat, 1700 m a.s.l., 14.vii.1957, *P.Davis* & *I.Hedge* D.31121 (holo. M, iso. E).

### ■ **Chamaespartium** Adans

\***C. sagittale** (L.) P.E.Gibbs in feddes Repert. Vol. 79, p.54 (1968).

(Efe et al., 2009)

Turkey, **A2** (A) Kocaeli: Yuvacik Dam area, Camidüzü, 480-545 m, roadsides, maquis, south, 4.v.2006, *A.Efe*, *N.Aksoy* & *D.Demir* 1233 (ISTO); **A3** Kocaeli: Yuvacik Dam area, between Serindere and Camidüzü, 650-820 m, maquis, south-east, 4.v.2006, *A.Efe*, *N.Aksoy* & *D.Demir* 1241 (ISTO); Kocaeli: Yuvacik Dam area, Servetiye and near Camidüzü, 480 m, maquis, south, 04.v.2006, *A.Efe*, *N.Aksoy* & *D.Demir* s.n (DUOF).

**Coronilla** L. (3: 538)

\***C. emerus** L. subsp. **emerus**, in Sp. Pl. 742 (1753).

(Keskin & Sadıkoğlu, 2008)

S. Anatolia. **C3** Antalya: Kemer, Göynük, Düden şelalesi, 01.ii.2007, *M.Keskin* 5397 & *N.Sadıkoğlu*.

**Lathyrus** L. (3: 328)

**e\*\*L. egirdiricus** Genç & Şahin, in Bot. J. Linn. Soc. 158: 301-305 (2008).

(Genç & Şahin, 2008)

Type: Turkey, **C3**: Isparta the road from Eğirdir to Aksu, 3-4 km, Isparta province 27°50'32"N, 30°54'45"E, 1000-1020 m. Grassy places around *Pinus* forests, 28.iv.2004. *H.Genç* & *A.Şahin* 1100. (iso. in FUH, GAZI).

**e\*\* L. nivalis** Hand.-Mazz. subsp. **sahinii** Genç, in Nord. J. Bot. 27: 402-404 (2009).

(Genç, 2009)

Type: Turkey, **C4** Karaman: the Karadağ Mountains, 37°23.21'74"N, 33°09.58'01"E, 1500-1700 m, a.s.l, grassy places around *Quercus* forests in the Karadağ Mountains in Karaman province, 28.vi.2004. *H.Genç* 1150 (holo. FUH, iso. GAZI).

**Melilotus** L. (3: 448)

**e\*\* M. gorkemii** Yıld. in Ot Sistemantik Botanik Dergisi 14: 1-4 (2008).

(Yıldırım, 2008a)

Type: Turkey, **C1** Muğla: Datça Kinidos'a doğru, yol kıyısı, yamaç, 550-600 m, 13.iv.2008, *Ş.Yıldırım* 34708 & *Görkem Yıldırım* (holo. Hb. Yıldırım, iso. ANK, GAZI, HUB, K, KNYA).

Paratypes: **C1** Muğla: Datça, Kinidos'a doğru 5. km, maki, 125 m, 13.iv.2008, *Ş.Yıldırım* 34697 & *Görkem Yıldırım* (Hb. Yıldırım); **C2** Muğla: Köyceğiz, Yangı Köyü, Yangı deresi, sarp ve derin vadi, kalker kayalığı, 100-200 m, 18.iv.1991, fruiting specimen, *A.Güner* 8883, *M.Vural*, *H.Duman*, *A.A.Dönmez* & *B.Mutlu* (HUB).

**Onobrychis** Adanson (3: 560)

**e\*\* O. cigdema** Yıld., in Ot Sistemantik Botanik Dergisi 11(2): 1-10 (2004).

(Yıldırım, 2004)

Type: Turkey, **C9** Şırnak: Between Gabar dağı and Namaz dağı, from Izvakiye fountain (Genya Izvakiye) to yaylabaşı, stepe, rocky quercetum (*Q. brantii* Lindley) places, 1800-2000 m, 21.vi.2005, *Ş.Yıldırım* 30133 (holo. Hb. Yıldırım, iso. HUB).

**e\*\* O. cigdema** Yıld. subsp. **gorkemii** Yıld., in Ot Sistemantik Botanik Dergisi 11(2): 1-10 (2004).

(Yıldırım, 2004)

Type: Turkey, **C9** Şırnak: Cudi dağı, Gümüş tepesi, northern foot, sandy coal quercetum (*Q. brantii* Lindley), 1100-1200 m, 20.vi.2005, *Ş.Yıldırım* 30020 (holo. Hb. Yıldırım, iso. HUB).

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

\***T. patense** L. var. **maritimum** Zaber, in Arch. Ver. Freunde Naturg. Meklenburg 14: 31 (1859).

(Keskin, 2007)

N. Anatolia, **A4** Bartın: Amasra, Göçgün yalısı, dere kenarı, *T. pratense* var. *pratense* ile beraber, 6

m, 24.x.2006, 41°48'10.8"N, 32°32'35.1"E, *M.Keskin* 5296 & *N.Sadıkoglu*.

\***T. patense** L. var. **villosum** DC., in Lam. & DC., in Fl. Fr. Ed. 3, 4: 426 (1805).

(Keskin, 2007)

N.E. Anatolia. **A8** Artvin: Hopa, Başköy, 27.vii.2003, *M.Keskin* 2927.

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

e\*\* **T. coerulescens** (Bieb.) Hal. subsp. **kemerensis** Göktürk, in Ann. Bot. Fenn. 46: 62-64 (2009).

(Göktürk, 2009)

Type: Turkey, **C3** Antalya: Kemer, Çıralı, sandy seashores, 3 m, 2.iv.2007, 36°23'895"N, 30°28'537"E, *R.S.Göktürk* 6013 (holo. AKDU, iso. ANK, GAZI, HUB).

Paratypes: Turkey, **C3** Antalya: Kemer, Çıralı, sandy seashores, 3 m, 21.iv.2007, 36°23'895"N, 30°28'537"E, *R.S.Göktürk* 6034 (AKDU); Kumluca, Adrasan, sandy seashores, 5 m, 21.iv.2007, 36°18'212"N, 30°27'967"E, *R.S.Göktürk* 6032 (AKDU).

\***T. monantha** C. A. Meyer subsp. **incisa** (Benth.) Ali, in Fl. Pakistan 100: 294 (1977).

(Ertekin & Kaya, 2004)

E. Anatolia. **C7** Diyarbakır: Ergani, Diyarbakır-Siverek 50. km, yol kenarı, 1100 m, 10.v.2001, *A.S.Ertekin* 2001-251 & *Ö.F.Kaya* (DUF); **C8** Diyarbakır: Bismil, Diyarbakır-Bismil, yol ve tarla kenarı, 40-41. km, 730-750 m, 11.v.1983, *Ö.Saya* ve ark. DUF 3595 (Hb. Yıldırımli); Diyarbakır: Dicle Üniveritesi kampusu, bozkır, 660 m, 29.iv.1998, *A.S.Ertekin* 1998-128 (DUF).

**LINACEAE** (2: 425)

**Linum** L. (2: 425)

e\*\* **L. ertugrulii** Tugay, Bağcı & Uysal, in Ann. Bot. Fenn. 47: 135-138 (2010).

(Tugay et al., 2010)

Type: Turkey, **B4** Konya: Cihanbeyli, Tuz Gölü, Gölyazı-Eskil arası, step, 920 m, 38°32.543' N, 33°12.240' E, 9.vii.2005 O. Tugay 3500, *Y.Bağcı* & *Uysal* (holo. KNYA, iso. GAZI, K).

e\*\* **L. kaynakiae** Yılmaz, in Nord. J. Bot. 28: 605-612 (2010).

(Yılmaz, 2010)

Type: Turkey, **C2** Burdur: Göktepe, Ballık-Ören, 8 km, 36°49'59"N, 29°24'59"E, 1367 m a.s.l., 22.vi.2005, *Ö.Yılmaz* (holo. BULU no. 24024).

**L. pubescens** Banks & Sol. subsp. **anisocalyx** (P.H.Davis) Yılmaz and Kaynak, in J. Biol. Environ. Sci. 2(4): 5-9 (2008). comb. & stat nov.

(Yılmaz & Kaynak, 2008b)

Type: Turkey, **C5** İçel: plaine de Mersina, v.1855, Balansa (holo. K, iso. BM).- *Linum anisocalyx* P.H.Davis, in Notes Royal Bot. Garden Edinburgh 22: 149, 1957.

**L. verruciferum** Azn. emend. Yild., in Bull. Herb. Boiss. Ser. 2(7): 314 (1907).

(Yıldırımli, 2010)

**B3** Eskişehir: Sivrihisar, Afyon'a doğru, Aşağıkepen köyü yakını, bozkır, jipsli yerler, 990-1030 m, 31.v.2008, *Ş.Yıldırımli* 34751 & Görkem Yıldırımli (Hb. Yıldırımli, HUB).

e\*\***L. vuralianum** Yılmaz & Kaynak, in Bot. J. Linn. Soc. 156: 459-462 (2008).

(Yılmaz & Kaynak, 2008a)

Type: Turkey, **B2** Kütahya: Tavşanlı-Emet, 2 km from Emet, 39°20'N, 29°18'E 1026 m, 17.vi.2004, *Ö.Yılmaz, E.Erdoğan* (holo. BULU 19958).

Paratype: **A2** Bilecik: Yenişehir-Bilecik, around Pelitözü, 40°10'N, 29°55'E, 746 m, 26.vi.2004, *Ö.Yılmaz* (BULU 19943).

**OROBANCHACEAE** (7: 1)

■ **Bornmuellerantha** Rothm.

e\*\* **B. alshehbaziana** Dönmez & Mutlu, in Novon 20: 265-267 (2010).

(Dönmez, 2010)

Type: Turkey, Antalya: Gazipaşa, Kaş pasture, above *Pinus nigra* forest, high mtn. steppe, limestone, 36°28'859" N, 032°25'697" E, 1760 m, 23.ix.2006, *Ali A.Dönmez* 14036 & *Biröl Mutlu* (holo. HUB, iso. E, INU, MO).

**Orobanche** L. (7: 3)

\* **O. palaestina** Reut. in DC., Prodr. 11: 718 (1847).

(Zare et al., 2009)

Turkey, **C5** Antakya: Samandağ 3 km from Çevlik to Keldağ, on seashore, 36°05'571"N 035°56' 371"E, 0 m, 26.vii.2009, *A.A.Dönmez* 15970.

**PAEONIACEAE (1: 204)**

**Paeonia L. (1: 204)**

**P. mascula** (L.) Miller subsp. **orientalis** (Thiebaut) D. Y. Hong, in Acta Phytotax. Sin. 38: 381-385 (2000). stat & comb. nov.

(Hong, 2000)

Turkey, Hatay: Amanus doplan, Kostelli-Kouph Or. Mont, 14.iv.1967, *Y.Ahman* 138 (E); Mt. Amanus, 1906, *M.Haradjian* 238 (G); Hatay: Belen, Karlik tepe, 1200 m, above Suguk Oluk *Abies cilicica* forest, 24.iv.1957, *Davis & Hedge* D27104 (E); Hakkari: below Oramar, 1300 m, in shade of *Platanus orientalis* and *Castanea sativa*, 17.v.1978, *J.Trelawny & J.McPhail* 2031 (E); Hakkari: Mosul, ad confines Turciae, inter Dohuk et Amadiya, 1200 m, 12.vii.1957, *K.H.Rechinger* 11678 (E); Hakkari: 9-10 km from Semdinli to Yuksekova, 1700-1800 m, in oak woods, 16.vi.1966, *P.H.Davis* 45045 (E); Bitlis: southern slopes of Kambos Dag above Tutu, 2000 m, under scrub oak near treeline, 17.viii.1956, *McNeil* 621 (E); Simvav, Vilovel siirl, 09.v.1972, *H.J.Leep* L7228 (SA); Antalya: Kemer (Lucia) Teke dagh 1100-1200 m, in *Quercus coccifera* and *Q. libani* scrub, 12.vii.1949, *P.H.Davis* 15199 (E); Adana: Haruniye, E. NW of Kurtlar, 1250 m, Fagetum, 02.v.1952, *H.Demiriz* 929 (E); Izmir: North side of Samsun Dag, above Guzelcamli, 200-400 m, mixed forst, *P.H.Davis* 41775 (E); Cilicien, Thal Agatsch Kissa, vi.1896, *W.Siehe* (G).

**PAPAVERACEAE (1: 213)**

**Papaver L. (1: 219)**

**e\*\*P. yildirimlii** Ertekin, in Ot Sistemantik Botanik Dergisi 15(1): 1-8 (2008).

(Yıldırımli & Ertekin, 2008)

Type: Turkey, **C9** Siirt: Aydınlar (Tillo), towards Pervari 3 km, steppe, slopes, 1150-1200 m, 17.vi.2007, *Ş.Yıldırımli* 34048 & *A.S.Ertekin* (holo. Hb. Yıldırımli, iso. GAZI, HUB).

Paratype: Turkey, **C9** Siirt: Aydınlar (Tillo), towards Pervari 3 km, steppe, slopes, 1150-1200 m, 22.v.2007, *A.S.Ertekin* 2007-325, budding plant (DUF).

**PLUMBAGINACEAE (7: 463)**

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

**e\*\*A. doganii** Bağcı, Doğu & Akaydın, in Nord J Bot. 27: 228-231 (2009).

(Bağcı et al., 2009a)

Type: Turkey, **C4**: Karaman, Sarıveliler, At meydanı, *Cedrus* forest opening, 1640 m a.s.l., 6.viii.2007, *S.Doğu* 1673 & *Bağcı* (holo. KNYA, iso. ANK, GAZI, HUB).

**Limonium Miller (7: 465)**

**e\*\* L. gueneri** Doğan, Duman & Akaydın, in Ann. Bot. Fenn. 45: 389-393 (2008).

(Doğan et al., 2008)

Type: Turkey, **C2** Antalya: Kaş, Patara, steppe calcareous coastal slopes, ca. 30 m, 17.viii.1996, *A.Güner* 12329, *H.Duman* and *S.S.Çağlar* (GAZI).

Paratype: Turkey, **C2** Antalya: Kaş, Patara, steppe calcareous coastal slopes, ca. 20 m, 30.vii.2004, *Akaydın* 9920 & *Doğan* (GAZI).

**POLYGALACEAE (1: 533)**

**Polygala L. (1: 533)**

**e\*\*P. peshmenii** Eren, Parolly, Raus & Kürschner, in Bot. J. Linn. Soc. 158: 82-86 (2008).

(Eren et al., 2008)

Type: Turkey, **C3** Antalya: between Antalya and Feslikan Yayla, ascent to Feslikan Yayla above Çakırlar, main road, c. 4 km below Geyikbayırı, vertical limestone rocks in open *Pinus brutia* Ten. forest, 36°31'33"N, 30°18'14"E, 370 m, 12.v.2003, *Eren* 78/03 & *Şirin* (holo. AYDN, iso. B, E, EGE, GAZI, HUB, ISTE, herb. Parolly).

**POLYGONACEAE (2: 265)**

**Polygonum L. (2: 269)**

**e\*\* P. istanbulicum** Keskin, in Nord J Bot. 27: 11-15 (2009).

(Keskin, 2009)

Type: Turkey, **A2(A)** İstanbul: Maltepe, Başbüyük district, forest of Süreyyapaşa hospital, 40°56'58.5"N, 29°08'20.9"E, 69 m a.s.l., 24.viii.2006, *M.Keskin* 5105 (holo. ISTE 83798, iso. ANK, ISTE, MUFE, herbarium M. KESKIN).



**PRIMULACEAE** (6: 111)**Lysimachia** L. (6: 135)\***L. japonica** Thunb., in Fl. Jap. 83. 1784.

(Terzioğlu &amp; Karaer, 2009)

Type: Turkey, **A8** Trabzon: Of, Ballica village, adjacent to the Solaklı Stream bed, 9 km south of Black Sea, 24.vi.2008, 53 m, KATO 16078. UTM European 50 datum 37 zone, 060°80'91"E, 45°26'514"N.

**RESEDACEAE** (1: 498)**Reseda** L. (1: 499)\***R. globulosa** Fisch. & C. A. Mey., in Ind. Sem. Hort. Petrop. 4: 45 (1837).

(Aytaç &amp; Duman, 2010)

N.E. Anatolia, **A8** Yusufeli (Artvin) to Olur (Erzurum) road, 25 km, 550-600 m, 16.vi.2003, in calcareous rocky places, *Duman* (9434) & *Z.Aytaç*.

**ROSACEAE** (4: 1)**Alchemilla** L. (4: 80)\***A. fissa** Günther & Schummel, in Sched. Cent. Siles. Exsicc. 9. no.2 (1819).

(Hayırlıoğlu-Ayaz &amp; İnceer, 2009)

N.E. Anatolia, **A9** Artvin: Ardanuç, Yalnızçam Dağları (together with *Picea orientalis*, some species of *Rhododendron* and others), grassy stream banks, 200 m, 12.vii.2003, Inceer 181, KTUB.

e\*\***A. hamzaoglu** Yıld., in Ot Sistemantik Botanik Dergisi 17(2): 1-114 (2010).

(Yıldırım, 2010)

Type: Turkey, **A8** Artvin: Yusufeli, Sarıgöl, Taşkiran köyü, Rindiker yaylası yolu, karışık orman, çayır-çimen, 1350-1650 m, 30.v.1984, Ş.*Yıldırım* 6370 (holo. Hb. Yıldırım, iso. HUB).

\***A. haraldi** Juz, in Acta Inst. Acad. Sc. URSS, SER I, fasc. 1 (1933).

(Hayırlıoğlu-Ayaz &amp; İnceer, 2009)

N.E. Anatolia, **A8** Rize: İkizdere, above the village of Anzer, alpine meadows, stream banks (together with some species of *Carex*, *Achillea*, *Tripleurospermum*, *Bromus*, among others) 2150 m, 19.vii.1995, *Hayirlioglu-Ayaz* 207, KTUB.

\***A. pseudomollis** Juz., in Addenda IX, p. 475.

(Hayırlıoğlu-Ayaz &amp; İnceer, 2009)

N.E. Anatolia, **A7** Trabzon: Zigana Dağı, on the road of Kadırga (together with some species of *Euphorbia*, *Malva sylvestris*, among others), 1750 m, 17.vii.1995, *Hayirlioglu-Ayaz* 195, KTUB.

**Rosa** L. (4: 106)**Rosa 'Asuman'**, in Phytologia Balcanica 16(2): 221-225 (2010).

(Tan &amp; Zielinski, 2010)

Turkey, **A2(E)** İstanbul: İstanbul, Maçka, grown on balcony from cuttings originating from the province of Van, 15.vii.2007, *A.Baytop* (ISTE 83926)

**Rosa 'Professor Turhan Baytop'**, in Phytologia Balcanica 16(2): 221-225 (2010).

(Tan &amp; Zielinski, 2010)

Turkey, **B7** Elazığ: Harput, village of Güllüköy, 1200 m, cultivar in garden, 5.vi.2000, *T.Baytop* (ISTE 77137).

**RUBIACEAE** (7: 722)**Asperula** L. (7: 734)

**A. pseudochlorantha** Ehrend. var. **antalyensis** (Ehrend.) Minareci & K.Yıldız, in Ann. Bot. Fenn. 47: 121-128 (2010). comb. et stat. nov.

(Minareci &amp; Yıldız, 2010)

Type: Turkey, **C3** Antalya distr. Kemer (Lycia): Kesme bogaz near Kemer, 14.viii.1949 *Davis* 14053 bis (holo. W).- *A. antalyensis* Ehrend., Notes Royal Bot. Garden Edinburgh 22: 352 f. 3b (1958).

**Galium** L. (7: 767)

e\*\***G. babadaghensis** Yıld., in Ot Sistemantik Botanik Dergisi 17(2): 1-114 (2010).

(Yıldırım, 2010)

Type: Turkey, **C2** Denizli: Babadağ, Aktaş mezarlığı Babadağ arası, dimdik Ocakboğazı çıkışı, kayalık ve taşlık, 1750-2250 m, 17.vii.1983, Ş.*Yıldırım* 5584 (holo. Hb. Yıldırım, iso. HUB).

e\*\***G. cankiriensis** Yıld., in Ot Sistemantik Botanik Dergisi 17(2): 1-114 (2010).

(Yıldırım, 2010)

Type: Turkey, **A4** Çankırı: Eldivan, Seydiköy üstü, bozkır, 1300-1350 m, 09.viii.1984, Ş.*Yıldırım* 7426 (holo. Hb. Yıldırım, iso. HUB).

**e\*\*G. canum** Req. ex DC. subsp. **ulukislaensis** Yıld., in *Ot Sistematik Botanik Dergisi* 17(2): 1-114 (2010).

(Yıldırım, 2010)

Type: Turkey, **C5** Niğde: Ulukışla, Çiftehan, Horozköy, Bolkar dağları, harlalar (bahçeler), tarlalar, 1200-1350 m, 30.vii.1984, *Ş.Yıldırım* 7136 (holo. Hb. Yıldırım, iso. HUB).

**e\*\*G. nigdeensis** Yıld., in *Ot Sistematik Botanik Dergisi* 17(2): 1-114 (2010).

(Yıldırım, 2010)

Type: Turkey, **C5** Niğde: Ulukışla, Çiftehan, Horozköy, Bolkar dağları, Kızıltepe, Gevençukuru mevki, taşlık ve kayalık, 2500-2750 m, 31.vii.1984, *Ş.Yıldırım* 7250 (holo. Hb. Yıldırım, iso. HUB).

**e\*\*G. tuncelianum** Yıld., in *Ot Sistematik Botanik Dergisi* 17(2): 1-114 (2010).

(Yıldırım, 2010)

Type: Turkey, **B7** Tunceli: Ovacık, Munzur dağları, Kepir tepesi, doruk çevresi, 3000 m, 29.vii.1979, *Ş.Yıldırım* 2323 (holo. Hb. Yıldırım, iso. HUB).

Paratype: Turkey, **B7** Tunceli: Ovacık, Munzur dağları, Fikrik yaylası ve tepesi, 2500-2900 m, 08.vii.1980, *Ş.Yıldırım* 3689 (Hb. Yıldırım).

**SALICACEAE** (7: 694)

**Salix** L. (7: 694)

**e\*\*S. anatolica** J.Zielinski & D.Tomaszewski, in *Ann. Bot. Fenn.* 45: 386-388 (2008).

(Zielinski & Tomaszewski, 2008)

Type: Turkey, **C5** Adana: Cetinik, above Pozanti, stream valley, 21.vi.1988, *Boratynski, Tomlik & Zielinski* 6531 (holo. KOR, iso. E).

**SCROPHULARIACEAE** (6: 458)

**Chaenorhium** (DC.) Reichb. (6: 650)

**e\*\*C. semispeluncarum** Yıldırım, Kit Tan, Şenol & Pirhan, in *Nord J Bot.* 28: 457-464 (2010).

(Yıldırım et al., 2010)

Type: Turkey, **B6** Malatya: Darende, Ağulbaşı (Engüzek) Belediyesi, cave entrance at Mağalan rocks, calcareous marl rich in potassium nitrate, 1600 m a.s.l., 15.viii.2005, *H.Yıldırım* 316 (holo. EGE 40672, iso. C, HUB, herb. Kit Tan); loc. ibid., 5.ix.2007, *H.Yıldırım* 1269 (para. EGE 40788).

**e\*\*C. yıldırımlii** Kit Tan, Yıldırım, Şenol & Pirhan, in *Nord J Bot.* 28: 457-464 (2010).

(Yıldırım et al., 2010)

Type: Turkey, **B7** Erzincan: Kemaliye, Başpınar, Buğdaypınar köyü, 1000-1200 m a.s.l., 20.xi.1980, *Ş.Yıldırım* 4222 (holo. HUB 24769, iso. HUB 24770).

**Scrophularia** L. (6: 603)

**\*S. gracilis** Blakelock, in *Kew Bull.* 1949, 531-532 (1950).

(Dönmez & Uğurlu, 2010)

E. Anatolia. **C9** Şırnak: Uludere, above Taşdelen village, 37°23'550"N, 042°52'458"E, 1007 m, limestones crevices, 25.v.2004, *A.A.Dönmez* 11884; 28.vi.2009, *A.A.Dönmez* 15484; Uludere, 2 km from Dağdibi village to Şırnak-Hakkari road, limestone crevices, 37°22'320"N, 043°07'784"E, 1124 m, 28.vi.2009, *A.A.Dönmez* 15487 (HUB).

**Verbascum** L. (6: 461)

**e\*\* V. xedirnense** Dane & G. Yılmaz, in *Phytologia Balcanica* 15(2): 181-184 (2009).

(Dane & Yılmaz, 2009)

Type: Turkey, **A1(E)** Edirne: Center-around the Faculty of Medicine, pasture, 41°40'28"N, 26°33'39"E, 26 m, 11.vii.2007, *F.Dane & G.Yılmaz* (EDTU 9611); iso. (EDTU 9612).

**e\*\* V. eskishirensis** Karavel., Ocak & Ekici, in *Nord J Bot* 22: 222-227 (2009).

(Karavelioğulları et al., 2009)

Type: Turkey, **B3** Eskişehir: Sivrihisar, Karacaören, Arayit Dağı, 1380 m a.s.l., limestone rocks and scree, 15.vii.2005, *F.A.Karaveliogullari* (3470), *A.Ocak & M.Ekici* (holo. GAZI, iso. ANK, HUB, ISTE, Hb. Yıldırım).

**e\*\* V. haraldi-adnani** Parolly & Eren, in *Willdenowia* 38: 127-134 (2008).

(Parolly & Eren, 2008)

Type: Turkey, **C2** Muğla, Yılanlı Dağı E of Muğla along the way to Akyer Göktepe, 37°19'34.2"N, 28°30'30.9"E, 1250 m, siliceous rock in *Pinus nigra* forest, 19.vii.2007, *Kürschner* 07-269, *Erdağ & Eren* (AYDN, iso. B, herb Kürschner, herb Parolly).

Paratype: Turkey, **C2** Muğla: Yılanlı Dağı, along the way to Akyer-Göktepe, İkizhasan Mevkii, 37°19'32.3"N, 28°30'33.1"E, 1290 m, siliceous rock in *Pinus nigra* forest, 5.vii.2008, *Eren* 164/08 & *Ağcagil* (AYDN, B, herb. Parolly).

**e\*\* V. ozturkii** Karavel., Uzunh & S. Çelik, in Pak. J. Bot. 40(4): 1595-1599 (2008).

(Karavelioğulları et al., 2008b)

Type: Turkey, **B7** Erzincan: Kemaliye-Divriği, 35 km, 1200-1300 m, 10.vii.2005, calcareous stony slopes, *F.A.Karavelioğulları* 3467, *M.E.Uzunhisarcıklı* (holo. GAZI, iso. ANK, HUB).

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

(Yılmaz & Dane, 2008)

European Turkey, **A1(E)** Kırklareli: Pınarhisar: Kaynarca village, roadside, (41°43'54"N, 27°13'29"E, 194 m), 27.vi.2002, *G.Yılmaz* (EDTU 9498).

\* **V. szovitsianum** Boiss. var. **szovitsianum** Fl. Or. 4. 333. (1879).

(Karavelioğulları, 2009)

E. Anatolia, **B10** Ağrı: Dogubeyazit-Ağrı 15 km, 1750 m, 09.vi.2001, calcareous stony slopes, *Karavelioğulları* 3066, *Ekici* and *Akan*; Dogubeyazit, 1860 m, 12.vii.2002, steppe, calcareous stony slopes, *Karavelioğulları* 3370 and *Çelik*. Dogubeyazit: San Cavus village, 1100 m, 09.vi.2001, calcareous stony slopes, steppe, *Karavelioğulları* 3061, *Ekici* and *Akan*; ibid. 19.vii.2001, *Karavelioğulları* 3134, *Aytaç*, *Ekici* and *Akan* (GAZI).

**e\*\*V. turcicum** Bani, Adıgüzel & Karavel., in Ann. Bot. Fenn. 47: 489-492 (2010).

(Bani et al., 2010)

Type: Turkey, **B6** Adana: Tufanbeyli, Demirogluk village, Öküzçukuru yayla, *Abies* and *Cedrus* mixed forest, 1700-1800 m, 30.vi.2008, *B.Bani* 6415 (GAZI, iso. ANK, HUB).

Paratype: Turkey, **B6** Adana: Saimbeyli, above Naltaş village, Mount Bozoğlan, 1600-1800 m, among *Abies* and *Cedrus* mixed forest, 8.vii.2006, *B.Bani* 4053 (ANK, GAZI, HUB).

**Veronica** L. (6: 689)

**V. erciyasdağı** (M.A. Fischer) C. Vural, in J. Syst. Evol. 47 (2): 168-172 (2009). comb. & stat. nov.

(Vural et al., 2009)

Type: Turkey, **B5** Kayseri: Erdshias Dağ (=Mount Erciyes), Tekir jaila (=Tekir plateau), feuchte Stellen, alt. ca 2200 m, 30.vi.1902, E. Zederbauer (holo. WU, iso. W).

**UMBELLIFERAE** (4: 265)

**Dumaniana** Yıldırımli & Selvi

**D. glandulosa** (Boiss. & Hausskn) Yıld. & Selvi, in Ot Sistemantik Botanik Dergisi 14 (1): 17-18 (2008). comb. nov.

(Yıldırımli, 2008b)

Basionym: *Pastinaca glandulosa* Boiss. & Hausskn in Fl. Or. 2: 1062 (1872).

**D. yıldizii** (Dirmenci) Yıld., in Ot Sistemantik Botanik Dergisi 16 (1): 9-14 (2009). comb. nov.

(Yıldırımli, 2009b)

Basionym: *Pastinaca yıldizii* Dirmenci in Bot. J. Linn. Soc. 158: 296-300 (2008).

Type: Turkey, **B1** Balıkesir: Edremit, Kazdağı (Ida) above Mehmetalan village, Nanekırı place, in open places in *Pinus nigra* Arn. forest, 1600 m, 14.ix.2006, *T.Dirmenci* 3350 (holo. GAZI, iso. ANK, HUB, EGE, ISTE).

**D. zozimioides** (Fenzl) Yıld. & Selvi, in Ot Sistemantik Botanik Dergisi 14 (1): 17-18 (2008). comb. nov.

(Yıldırımli, 2008b)

Basionym: *Pastinaca zozimioides* Fenzl in Asiae Min. Bot. 1: 436 (1860).

**Ferula** L. (4: 440)

**e\*\* F. brevipedicellata** Peşmen ex Sağıroğlu & H.Duman, in Ann. Bot. Fenn. 47: 293-300 (2010).

(Sağıroğlu & Duman, 2010)

Type: Turkey, **B9** Bitlis: Hizan-Bahçesaray road 22 km, 1000 m, 9.vi.2002, *M.Sağıroğlu* 2003 (holo. GAZI, iso. ANK, E).

Paratypes: Turkey, **B9** Bitlis: Hizan-Bahçesaray road 22 km, 1000 m, 2002, *M.Sağıroğlu* 2152 (GAZI). **B7** Malatya: Arapkir- Kemaliye road 3-9 km, 1100 m, 2002, *M.Sağıroğlu* 2177 (GAZI). **B8** Tunceli: Erzincan-Tunceli crossroads 3 km, 1300 m, 2002, *M.Sağıroğlu* 2065 (GAZI).

**e\*\* F. duranii** Sağiroğlu & H.Duman, in Ann. Bot. Fenn. 47: 293-300 (2010).

(Sağiroğlu & Duman, 2010)

Type: Turkey, **C3** Antalya: Akseki-Çukurköy, Istarlas mountain, 900-950 m, 25.v.2002, *M.Sağiroğlu* 1896 & *Akçiçek* (holo. GAZI, iso. ANK, E, Hb. Yıldırımli).

Paratypes: Turkey, **C3** Antalya: Akseki-Çukurköy, Istarlas mountain, 950 m, *M.Sağiroğlu* 2163 (GAZI); *ibid.*, 2002 *M.Sağiroğlu* 2240 (GAZI); *ibid.*, *A.Duran* 4129 (GAZI). **C4** Antalya: Alanya castle, 50 m, 2006 *M.Sağiroğlu* 2606 & *F.Karavelioğulları* (GAZI).

■ **Leiotulus** Ehrenb.

**e\*\* L. nydeggeri** Yild. & Dinç, in Ot Sistemantik Botanik Dergisi 17(2): 1-114 (2010).

(Yıldırımli, 2010)

Type: Turkey, **C4** Karaman: Göktepe, Köristan'ın yeri, köknar ormanı, 1650 m, 30.v.2001, *Ş.Yıldırımli* 26321 & *M.Dinç* (holo. Hb. Yıldırımli, KNYA).

■ **Neocryptodiscus** Hedge & Lamond

**N. papillaris** (Boiss.) Herrnst. & Heyn, in Candollea 52(1): 181-184 (1997). comb. nov.

(Herrnstadt & Heyn, 1997)

*Cachrys papillaris* Boiss. in Ann. Sci. Nat. Bot. ser. 3(2): 75. 1844.

(Turkey): Mardin, betw. Mardin and Kotschassar, *Hausknecht* 515 (G-Boiss.)

**Peucedanum** L. (4: 473)

**e\*\*P. kittaniae** Yild., in Ot Sistemantik Botanik Dergisi 17(2): 1-114 (2010).

(Yıldırımli, 2010)

Type: Turkey, **B7** Erzincan: Yaylabaşı (Kiy) köyü, Kazankaya dağı, Munzur dağları, Çekem tepesi ve Şenk deresi, 1500-2300 m, 07.viii.1980, *Ş.Yıldırımli* 3835 (holo. Hb. Yıldırımli, iso. HUB).

**e\*\*P. ozhatayiorum** Akpulat & Akalın, in Ann. Bot. Fenn. 47: 59-62 (2010).

(Akpulat & Akalın, 2010)

Type: Turkey, Hopa-Borçka, near Borçka, 500 m, 41°24'10"N, 41°31'09"E, 7.ix.2006, *Akpulat* 4216 (holo. ISTE 84194, in flower; iso. CUFH).

Paratypes: Turkey, **A7** Trabzon: around Hamsiköy, in forest, 691 m, 40°45'18"N, 39°37'20"E, 10.ix.2006, *Akpulat* 4232 (CUFH); **A8** Artvin: Hopa-Borçka, near Borçka, 500 m, 41°24'10"N, 41°31'09"E, 20.xi.2007 *Akpulat* 4305 (ISTE 84194, in fruit); **A9** Artvin: in Yalnızçam forest, 1700 m, 45°67'95"N, 38°28'51"E, 8.ix.2006, *Akpulat* 4223 (CUFH).

**Pimpinella** L. (4: 352)

**e\*\*P. isaurica** V.A. Matthews subsp. **sumbuliana** Göktürk, in Ann. Bot. Fenn. 45: 293-295 (2008).

(Göktürk, 2008)

Type: Turkey, **C6** Kahramanmaraş: Göksun, 22 km from Göksun to Kahramanmaraş, in calcareous rock crevices, 1350-1450 m, 37°56'32"N, 36°34'52"E, 5.viii.2003 *R.S.Göktürk* 5150 (holo. AKDU, iso. ANK, HUB, GAZI).

Paratypes: Turkey, **C6** Kahramanmaraş: Göksun, 22 km from Göksun to Kahramanmaraş, in calcareous rock crevices, 1350-1450 m, 37°56'32"N, 36°34'52"E, 1.viii.2004, *R.S.Göktürk* 5945 (flowering, AKDU); *ibid.*, 37°56'32"N, 36°34'52"E, 29.viii.2004, *R.S.Göktürk* (5949) & *A.Aksoy* (mature fruiting specimens, AKDU).

**\*P. nephrophylla** Rech.f. & H. Riedl., in Anz. Math.-Nat. Kl. Österr. Akad. Wiss. 98: 226.

(Ertekin & Kaya, 2005)

E. Anatolia, **B8** Diyarbakır: Dicle, Dicle to Hani 12 km, on rock, 740 m, 27.vii.2004, *A.S.Ertekin* 2004-345, *M.Aksal* (ANK, DUF, Hb. Yıldırımli); Eğil, Eğil castle, on rock, 950 m, 04.x.2004, *A.S.Ertekin* 2004-362 (DUF).

**e\*\*P. tunceliana** Yild., in Ot Sistemantik Botanik Dergisi 17(2): 1-114 (2010).

(Yıldırımli, 2010)

Type: Turkey, **B7** Tunceli: Ovacık, Munzur dağları, Karagöl kepezi (vadisi), Dilap yaylası, 1750-2250 m, 07.vii.1980, *Ş.Yıldırımli* 3566 (holo. Hb. Yıldırımli, iso. HUB).

**Seseli** L. (4: 367)

**e\*\*S. paphlagonicum** Pimenov & Kljuykov, in Fl. Medit. 20: 19-27 (2010).

(Pimenov & Kljuykov, 2010)

Type: Turkey, **A4** Kastamonu: Ilgaz Dağı, Ilgazdağı Milli Parkı, 41°00'N, 33°44'E, 2200 m, limestones, 19.viii.2008, *Pimenov & Kljuykov* 104 (holo. MW).

**e\*\*S. phrygium** Pimenov & Kljuykov, in *Fl. Medit.* 20: 19-27 (2010).

(Pimenov & Kljuykov, 2010)

Type: Turkey, **A3** Eskişehir: Sakarya valley, Mayıslar, 40°02'N, 30°39'E, 250 m, in cracks of limestone cliffs. 30.vi.2007, *Pimenov & Kljuykov* 29 (holo. MW).

**Smyrniopsis** Boiss. (4: 340)

**e\*\*S. munzurdaghensis** Yıld., in *Ot Sistematik Botanik Dergisi* 17(2): 1-114 (2010).

(Yıldırım, 2010)

Type: Turkey, **B7** Tunceli: Ovacık, Karagöl kepezi (vadisi), kayalık ve taşlık alanlar, kepezin orta kesimi, 1350 m, 30.vi.1983, *Ş.Yıldırım* 5401 (holo. Hb. Yıldırım, iso. HUB).

**Trigonosciadium** Boiss. (4: 500)

**e\*\*T. undulatum** Yıld., in *Ot Sistematik Botanik Dergisi* 17(2): 1-114 (2010).

(Yıldırım, 2010)

Type: Turkey, **C9** Hakkari: Depin, Sümbül çayı kıyısı, harlalar (bahçeler) ve tarlalar, ağaçlık, 1300 m, 14.vi.2009, *Ş.Yıldırım* 36076 (holo. Hb. Yıldırım, iso. KNYA).

## MONOCOTYLEDONES

**ARACEAE** (8: 41)

**Biarum** L. (8: 55)

**\*B. syriacum** (Spreng.) H. Riedl in *Aroideana* 3: 19 (1980).

(Akan & Balos, 2008)

S.E. Turkey, **C6** Gaziantep: Dülük Baba forest, 8 km N of Gaziantep, 10.iv.2005, steppe and rocky ground, 1100-1200 m, *H.Akan* 5633 & *Balos*, *ibid.* 7.v.2005, *H.Akan* 5782 & *Balos*, *ibid.* 03.iv.2008, forest spaces, terra rosa type soil, *H.Akan* 5841, *Balos* & *Mirdeslioğlu*, *ibid.* 01.v.2008, *H.Akan* 5844 & *Balos*.

**GRAMINEAE** (9: 158)

**Aegilops** L. (9: 233)

**\*A. juvenalis** (Thell.) Eig, in *Feddes Repert.*, *Beih.* 55: 93 (1929).

(Cabi & Doğan, 2009)

S.E. Anatolia. **C8** Şanlıurfa: Ceylanpınar, Ceylanpınar State Farm, Güzelyat area, SE of Güzelyat castle, around GSM base station, 437 m, 23.iv.2007, *E.Cabi* 1879 (GAZI).

**Arundo** L. (9: 561)

**\*A. mediterranea** Danin, in *Willdenowia* 38: 469 (2008).

(Danin, 2008)

European Turkey, **A1 (E)** Tekirdağ: 7 km E of Tekirdağ to İstanbul, between the coastal road and the beach, 3.vii.2007, *Danin* (B, E, HUI, PAL).

**Bromus** L. (9: 272)

**\*B. danthoniae** Trin. ex C.A. Mey. subsp. **pseudodanthoniae** (Drobov) H.Scholz, in *Willdenowia* 40: 199 (2010).

(Behçet et al., 2010)

E. Anatolia. **C9** Şırnak, Beytüşebap town, district of Mesra (37°40'28"N, 43°11'17"E), south of Kerkol hill (around Tahtı, Abdo rocky area), stony steppe, c. 2000 m, 20.vi.2009, *Rüstemoğlu* 833 (B, VANF).

**\*B. regnii** H. Scholz, in *Willdenowia* 38: 470 (2008).

(Scholz, 2008)

European Turkey, **A1(E)** Kırklareli: 13 km a Hasva versus Edirne, ad versuras et in incultis, 18.vi.1984, *Rehinger* 60717 (B). – Id., **C1** Muğla: c. 6 km W of Marmaris, *Liquidambar orientalis* forest, serpentine, c. 100 m, 16.v.1983, *Carlström* 10398; *ibid.*: Gölyeri, c. 8 and 7 km NE Emecik, limestone, 18.v.1983, 11.v.1984, *Carlström* 10683, 12539; *ibid.*: Kızıldağ, 4 km NW İçmeler, phrygana on serpentine, c. 100 m, 20.v.1983, *Carlström* 10812; *ibid.*: 3 km SE of Marmaris, open ground on serpentine, 20.v.1983, *Carlström* 10894; *ibid.*: 10 km N of Marmaris, serpentine, 26.v.1983, *Carlström* 11280; *ibid.*: between Tuludağ and Karadağ, limestone, 09.v.1980, *Carlström* 9738; *ibid.*: Datça peninsula, easternmost part of Hisarönü, 11.v.1984, *Carlström* 12745 (all *Carlström* collections LD, under "*B. japonicus*"; det. Scholz).

**Catapodium** Link (9: 461)

**\*C. balearicum** (Willk.) H. Scholz, in *Willdenowia* 38: 470 (2008).

(Raus et al., 2008)

S. Anatolia. **C3** Antalya: coast E of Antalya, Belek park (Absa) W of Gürpınar (36°49'56"N, 31°10'59"E), depression in coastal dunes, 12.iv.2005, *Ristow* 319/05.

■ **Cymbopogon** Spreng.

\* **C. olivieri** (Boiss.) Bor, in Notes Roy. Bot. Gard. Edinb. 25: 62 (1963).

(Yıldırım, 2007)

E. Anatolia, **C9** Şırnak: Kumçatı, roadside, argillaceous stream and hill, 600 m, 26.vi.1997, Ş. *Yıldırım* 20348 & A.A. *Dönmez* (GAZI, HUB, Hb. Yıldırım).

**Eremopyrum** (Ledeb.) Jaub. et Spach (9: 227)

e\*\* **E. bonaepartis** (Sprengel) Nevski var. **aristatum** (Steudel) Cabi & Doğan, in Plant Syst Evol 287: 129-140 (2010).

(Cabi & Doğan, 2010)

Type: Turkey, **B3** Ankara: 26 km from Polatlı to Sivrihisar 39°33.417'N, 31°47.173'E, 814 m stepe, *E.Cabi* 339 (holo. GAZI, iso. ANK, E)

**E. bonaepartis** (Sprengel) Nevski var. **sinaicum** Cabi & Doğan, in Plant Syst Evol 287: 129-140 (2010). comb. nov.

(Cabi & Doğan, 2010)

**E. confusum** Melderis var. **sublanuginosum** (Drob.) Cabi & Doğan, in Plant Syst Evol 287: 129-140 (2010). comb. nov.

(Cabi & Doğan, 2010)

**Poa** L. (9: 470)

e\*\* **P. bussmannii** H. Scholz, in Willdenowia 40: 200-201 (2010).

(Scholz, 2010)

Type: Turkey, (C Anatolia): Vilayet Kayseri, Kugelbuschsteppe auf stark verwittertem Basaltschutt an der Nordostseite des Ercyas Dağı, 2120-2700 m, 21.vii.1990, *Bussmann* (STU).

**IRIDACEAE** (8: 381)

**Crocus** L. (8: 413)

e\*\* **C. antalyensis** B. Mathew subsp. **striatus** Erol & Koçyiğit, in Nord. J. Bot. 28: 186-188 (2010).

(Erol et al., 2010)

Type: Turkey, **C1** Mugla: surrounding hills of Mugla, 900-1050 m a.s.l., 16.ii.2007, *O.Erol* & *L.Şık*, ISTF 40079 (holo. ISTF).

**LILIACEAE** (8: 67)

**Allium** L. (8: 98)

\* **A. dentiferum** Webb & Berthel., Hist. Nat. Iles Canaries 3: 345 (1848).

(Koçyiğit & Özhatay, 2010)

European Turkey, **A2 (A)** İstanbul: Maltepe, ISTE 18096; **C3** Antalya: Side, 9 m, ISTE 86053.

\* **A. dodecanesii** Karavokyrou & Tzanoudakis in Ann. Muse. Goulandris 9: 141 (1994).

(Koçyiğit & Özhatay, 2010)

S. Anatolia, **C4** Mersin: Kuzucubelen, 671 m, ISTE 86054.

e\*\* **A. ertugrulii** Demir. & Uysal, in Nord. J. Bot. 25: 315-317 (2007).

(Demirelma & Uysal, 2007)

Type: Turkey, **C3** Konya: Kızıldağ, stony places openings in *Pinus nigra* forests, 1400-1550 m, 37°20'86.5"N, 31°40'68.3"E, 19.v.2006, *Demirelma* 3125 & *Uysal* (holo. KNYA).

e\*\* **A. rumelicum** Koçyiğit & N.Özhatay, in Phytologia Balcanica 16(3): 355-359 (2010).

(Özhatay et al., 2010)

Type: Turkey, **A1(E)** Kırklareli: Demirköy, above Dupnisa Cave, 27.vii.2009, *E.Akalın*, *Y.Yeşil*, *U.Uruşak*, (holo. ISTE 86112, iso. EDTU).

e\*\* **A. yıldırımlii** Dural, Bağcı & Ertugrul, in Ot Sistematik Botanik Dergisi 16(1): 1-8 (2009).

(Dural et al., 2009)

Type: Turkey, **C4** Karaman: between Ermenek and Sarıvadi, from Hamitseydi to Yunt dağı, *Cedrus libani* forests, 36°31.978'N, 32°47.184'E, 1710 m a.s.l., 14.vii.2004, *K.Ertugrul* 3218, *Y.Bağcı* & *H.Dural* (holo. KNYA, iso. Hb. Yıldırım).

**Fritillaria** L. (8: 284)

**e\*\* F. mughlae** Tekşen & Aytaç, in Ann. Bot. Fenn. 45: 141-147 (2008).

(Tekşen & Aytaç, 2008)

Type: Turkey, **C1** Muğla: Marmaris-Datça, between Hisarönü and Emecik, 45 km to Datça, 70-80 m, rocky slopes, 01.iii.2001, *M. Tekşen* 1996, *E. Tekşen* and *U. Soydemir* (GAZI; iso. ANK, ISTE, HUB).

Paratype: Turkey, **C2** Muğla: Marmaris to Emecik, 350 m, 25.iii.1956, *D. & Pollunin* 25375 (ANK, BM, E, K).

**Gagea** Salisb. (8: 312)

**e\*\* G. sivasica** Hamzaoğlu, in Turk. J. Bot. 32: 261-264 (2008).

(Hamzaoğlu et al., 2008)

Type: Turkey, **B6** Sivas: Hafik, Tödürge Lake, around resort of Cumhuriyet University, 1310 m, damp grassy places on gypsaceous rocks, 07.v.2006, *Hamzaoğlu, Aksoy & Budak* 3832 (holo. BOZOK Hb., iso. ANK, BOZOK Hb., ERCIYES Hb., GAZI, HUB).

**Muscari** L. (8: 245)

**e\*\*M. babachii** Eker & Koyuncu, in Nord. J. Bot. 26: 49-52 (2008).

(Eker & Koyuncu, 2008)

Type: Turkey, **C6** Hatay: Amanoslar, Arsuz, Karlı Tepe, 1788 m a.s.l., 13.vi.2005, 36°18.218'N, 36°00.272'E, *İ. Eker* 1196 (holo. AIBU, iso. AEF).

**e\*\*M. sirnakense** Yıld., in Ot Sistemantik Botanik Dergisi 17(2): 1-114 (2010).

(Yıldırım, 2010)

Type: Turkey, **C9** Şırnak: Şırnak, Hoşiplin'den Galoşki yaylasına, yayla, çayırılık, karın kalktığı yerler, 1750 m, 10.iv.2010, *Ş. Yıldırım* 36530 (holo. Hb. Yıldırım, iso. HUB, ISTE).

**e\*\*M. vuralii** Bağcı & Doğu, in Nord. J. Bot. 27: 243-246, (2009).

(Doğu & Bağcı, 2009)

Type: Turkey, **C4** Karaman: Sariveliler; Atalanı, stony place, steppe, 1950 m a.s.l., 13.iv.2006, *S. Doğu* 106 and *Bağcı* (holo. KNYA, iso. GAZI, Hb. Yıldırım).

**Ornithogalum** L. (8: 227)

**\*O. boucheanum** (Kunth) Asch., in Österr. Bot. Zeitschr. 16: 192 (1866).

(Dalgıç et al., 2006)

European Turkey, **A1 (E)** Edirne: Hacıdanışment-Saridanışment village, 41°31'N, 26°37'E, 29 m alt., at the village entrance, 29.iv.2004, *G. Dalgıç & F. Dane* (EDTU 9499).

**e\*\*O. nallihanense** Yıld. & A. Doğru Koca, in Nord. J. Bot. 28: 329-331 (2010).

(Doğru-Koca & Yıldırım, 2010)

Type: Turkey, **A3** Ankara: Nallihan, 18 km from Nallihan to Mudurnu, opposite Doğandere village, Quercetum, inside and slopes of valley, 36°35'37"E, 44°63'532"N, 750-900 m a.s.l., stones and screes, 02.iv.2006, *Ş. Yıldırım* 30620 & *A. Doğru-Koca* (holo. Hb. Yıldırım, iso. HUB, K). Turkey. Ibid. 29.iv.2007, *A. Doğru-Koca* 2988 (para. Hb. Yıldırım).

**e\*\*O. nurdaniae** Bağcı & Savran, in Turk. J. Bot. 33: 1-5 (2009).

(Bağcı et al., 2009b)

Type: Turkey, **A2** Bursa: Uludağ (Bithynian Olympus); Uludağ, openings in *Juniperus communis* communities, 1750-1900 m, 09.vi.2008, *Bağcı* 3782 and *Savran* (holo. KNYA, iso. GAZI, Hb. Yıldırım).

**e\*\* O. sandrasicum** Yıld., in Ot Sistemantik Botanik Dergisi 16: 1-8 (2009).

(Yıldırım, 2009a)

Type: Turkey, **C2** Muğla: Köyceğiz, Ağla köyü, Sandras dağı, bulak karşısı, karaçam orman açıklığı, çarşak, 1275-1300 m, 30.v.2009, *Ş. Yıldırım* 35960, *Görkem Yıldırım* & *H. Işıl Yıldırım* (holo. Hb. Yıldırım, iso. GAZI, HUB).

**Paris** L. (8: 355)

**\*P. quadrifolia** L., in Sp. Pl. 1: 367 (1753).

(Terzioğlu et al., 2008)

N.E. Anatolia, **A9** Ardahan: Posof-Gönülaçan village, UTM 030°81'40"E, 46°03'186"N, 1930 m and UTM 030°80'50"E, 46°02'923"N, 2015 m, 17.viii.2007, *S. Terzioğlu*, KATO: 10538, *Çoşkunçelebi* 659 (KTUB).

**Tulipa L. (8: 302)**

**e\*\* T. koyuncui** Eker & Babaç, in Nord. J. Bot. 28: 324-328 (2010).

(Eker & Babaç, 2010)

Type: Turkey, **B9** Van: between Van and Başkale, Güzeldere pass, rocky and stony slopes, 2738 m a.s.l., 19.v.2006, *Eker* 1565 (holo. AIBU, iso. AEF).

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