

**Küre Dağları Milli Parkı'nın Florası (Bartın Bölümü)****Flora of Küre Mountains National Park (Bartın Section)****Bilge TUNÇKOL<sup>1</sup>, Necmi AKSOY<sup>2</sup>****Öz**

Bu çalışma Küre Dağları Milli Parkı'nın (Bartın Bölümü) florasını belirlemek amacıyla gerçekleştirilmiştir. Küre Dağları Milli Parkı (41°36'N, 33°07'E), Kuzey Batı Anadolu'da, Küre Dağları'nın Batı Bölümü'nde ve Batı Karadeniz Karstik Alanı içinde yer alır. Araştırma alanı P. H. Davis'in kareleme sistemine göre A4 karesi içerisinde yer almaktadır. 2013-2017 yılları arasında yapılan 50 arazi çalışması sonucunda 1450 bitki örneği toplanmıştır. Bitkilerin teşhis edilmesi sonucu 95 familya ve 357 cinse ait 655 takson tespit edilmiştir. Bu taksonlardan 22'si endemik olup, alanın endemizm oranı 3.36 %' dir. Araştırma alanında en fazla takson içeren familyalar: Asteraceae 64 takson, Fabaceae 63 takson, Lamiaceae 39 takson, Rosaceae 37 takson ve Orchidaceae 33 takson şeklinde sıralanmaktadır. Taksonların fitocoğrafik bölgelere göre dağılımları ise: 182 takson Avrupa-Sibirya, 74 takson İran-Turan, 18 takson Akdeniz kökenlidir. Araştırma alanından toplanan taksonların Raunkiaer'in yaşam biçimlerine göre 99'u Fanerofit, 16'sı Kamefit, 95'i Kriptofit, 304'ü Hemikriptofit ve 141'i Terofittir.

**Anahtar Kelimeler:** A4, Bartın, Flora, Küre Dağları, Milli Park

**Abstract**

This study was carried out to determine the flora of Küre Mountains National Park (Bartın section). Küre Mountains National Park is situated on (41°36'N, 33°07'E) northwest Anatolia, at the west side of Küre Mountains, and Western Black Sea karstic area. The study area is also located in the A4 grid square according to the categorization of P. H. Davis. 1450 plant samples were collected in 50 field trips to research area between 2013 and 2017. 95 families, 357 genera and 655 taxa were determined. 22 of the collected taxa are endemic and endemism ratio is 3,36 %. The largest families that have the most taxa number are as follows: Asteraceae 64 taxa, Fabaceae 63 taxa, Lamiaceae 39 taxa, Rosaceae 37 taxa, and Orchidaceae 33 taxa. The distribution of taxa according to phytogeographic regions is as follows: 182 taxa Euro-Siberian, 74 taxa Irano-Turanian, 18 taxa Mediterranean. According to Raunkiaer's life forms of the plants are 99 Phanerophytes, 16 Chamaephytes, 95 Cryptophytes, 304 Hemicryptophytes and 141 Therophytes.

**Keywords:** A4, Bartın, Flora, Küre Mountains, National Par

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## 1. Introduction

Turkey is one of the richest floristic centers of the world because of being at the intersection point of three important flora regions of the world, its topographic structure shaped by the movements of Africa- Araby Plates and having different climate types in a narrow geograpy. So, it has lots of different plant societies thanks to this floristic richness (Tunçkol, 2012).

Küre Mountains National Park, which hosts the best intact examples of “Black Sea Moist Karst Forest” ecosystems, is among the European 100 Forest Hotspots that need to be protected. “Hotspots” is a nature protection term that is used to define highly endemic and rapidly declining habitat areas. Also, the area is one of the 9 Forest Hot Spots and 311 Key Biodiversity Areas in Turkey that must be protected (Blumer, 2010). The aim of this study is to contribute to the plant diversity of the Western Black Sea region by determining the flora of the Küre Mountains National Park (Bartın Section).

### 1.1. The Study Area

The study area is Küre Mountains. Küre Mountains National Park (41°36’N 33°07’E) takes place at the west side of the Küre Mountains in the Northwest Anatolia and in the karstic area of the Western Black Sea (Blumer, 2010). The elevation of the study area changes between 90-1250 m (Figure 1).



**Figure 1.** Geographic location of the research area (Google Earth, 1/25000).

## **2. Material and Methods**

### **2.1 Collection and Identification of Plant Samples**

In order to determine the flora of the Mount Küre National Park (Bartın Section) 1450 plant samples were collected during the vegetation period, from February 2013 to October 2017. The study benefited from the works of the Flora of Turkey and the East Aegean Islands (Davis et al., 1965-1988; Güner et al., 2000, respectively) in order to identify the family, genus, species, and the subspecies of the plant samples. The threat categories of rare and endemic plants were evaluated according to the “Red Data Book of Turkish Plants” and the IUCN threat categories (Ekim et al., 2000). Firstly, the identified taxa for the A4 square were found out by comparing them with the following studies: Davis et al. (1965-1988); Yatgın (1996); Ketenoğlu and Güney (1997); Başaran (1999); Ekici (2010); Güner et al. (2000); Yılmaz (2001); Özbek (2004); Yılmaz, (2004); Aydın (2005); Demirörs (2005); Kaya and Başaran (2005); Sarı Naim (2010).

### **2.2 Forming Systematic Order**

It was benefited from the Flora of Turkey and the East Aegean Islands Volumes 1-9 and Flora of Turkey and the East Aegean Islands Volume 11 while forming the systematic order for the subdivision systematic of the angiospermae (Davis et al., 1965-1988; Güner et al., 2000; Cole et al., 2016), (APG IV). Also, a floristic list was prepared by considering the current updates on websites such as The Plant List (<http://www.theplantlist.org>), Euro Med (<http://www2.bgbm.org/EuroPlusMed>), Bizim Bitkiler (<http://www.bizimbitkiler.org.tr>), IPNI (<http://www.ipni.org>). After identification of the plant species, all plants were evaluated in respect of their Raunkier life forms, phytogeographic regions, threat categories and taxa numbers per family.

## **3. Result and Discussion**

### **3.1 Flora**

As a result of 50 times excursions to research area and identification of 1450 plant samples 655 taxa belonging to 357 genera and 95 families were determined. 22 of these taxa are endemic and 6 are rare (Table 1).

**Table 1.** The names and threat categories of endemic and rare taxa.

<i>Endemic Taxa</i>	<i>Threat Category</i>
<i>Bellevalia clusiana</i> Griseb.	LC
<i>Euonymus latifolius</i> (L.) Mill. var. <i>cauconis</i> Coode et Cullen	LC
<i>Hesperis bicuspidata</i> (Willd.) Poir.	LC
<i>Asperula pestalozzae</i> Boiss.	L
<i>Onosma armena</i> DC.	LC
<i>Campanula grandis</i> Fisch. & C.A.Mey. subsp. <i>grandis</i>	LC
<i>Centaurea inexpectata</i> Wagenitz	LC
<i>Dactylorhiza nieschalkiorum</i> H.Baumann & Künkele	LC
<i>Allium olympicum</i> Boiss.	LC
<i>Digitalis lamarckii</i> Ivan	LC
<i>Abies nordmanniana</i> subsp. <i>equi-trojani</i> (Asc. & Sint. ex Boiss.) Coode & Cullen	LC
<i>Crocus ancyrensis</i> (Herb.) Maw.	LC
<i>Phlomis russeliana</i> (Sims) Lag. ex Benth	LC
<i>Arum euxinum</i> R.R.Mill	LC
<i>Sideritis dichotoma</i> Huter	LC
<i>Delphinium fissum</i> subsp. <i>anatolicum</i> Chowdhuri & P.H.Davis	LC
<i>Onosma intertextum</i> Hub.-Mor.	NT
<i>Melampyrum arvense</i> L. var. <i>elatius</i> Boiss.	NT
<i>Inula helenium</i> subsp. <i>orgyalis</i> (Boiss.) Grierson	NT
<i>Seseli resinosum</i> Freyn & Sint.	VU
<i>Corydalis caucasica</i> subsp. <i>abantensis</i> Lidén	EN
<i>Centaurea cadmea</i> Boiss subsp. <i>pontica</i> Wagenitz ex Y.B. Köse et Ocak	EN
<i>Rare Taxa</i>	<i>Threat Category</i>
<i>Lilium martagon</i> L.	VU
<i>Stachys officinalis</i> L. subsp. <i>officinalis</i>	VU
<i>Stachys germanica</i> L.	VU
<i>Dactylorhiza incarnata</i> (L.) Soó	VU
<i>Ilex aquifolium</i> L.	VU
<i>Leucopodium aestivum</i> L.	VU

The list of the identified plant species was given below. The meanings of the abbreviations in the list are as follows: 1- A4 Bartın: Ulus, 2- A4 Bartın: Arıt, 3- A4 Bartın: Amasra, 4- A4 Bartın: Kurucaşile, Th: Therophytes, Ch: Chamaephytes, Hy: Hydrophytes, G: Geophytes, H: Hemicryptophytes, Ir-Tur.: Irano-Turanian, Eu. Sib.: Euro-Siberian, Med.: Mediterranean, el.: Elementi, Ph: Phanerophytes, R: Rare, E: Endemic, T: Tunçkol.

**PTERIDOPHYTA / EQUISETACEAE / *Equisetum arvense* L.**, 2, 450-800 m., 41°36'10"K 32°32' 62"D, 12.06.2015, T 4100, G.

**POLYPODIALES / PTERIDACEAE / *Adiantum capillus-veneris* L.**, 2, Zindanlık Hill location, rocky fields, 450-700 m., 41°43'55"K 32°42'08"D, 12.06.2015, T 4101, G.

**ASPLENIACEAE / *Asplenium onopteris* L.**, 2, Zoni Alm, 41°43'32"K 32°37'46"D, 600-800 m., 10.04.2016, 12.06.2015, T 4002, DUOF 7093, G.

***A. ruta-muraria* L.**, 1, Abdurrahman Village, humid rocky fields, 710-950 m., 14.06.2014, 41°38'51" K 32°39'26"D, T 3404, DUOF 7094, G.

***A. scolopendrium* L.**, 1, Abdurrahman Village, humid rocky fields, 710-900 m., 23.06.2015, 41°38'43"K 32°39'23"D, T 3541, DUOF 7095, G.

- A. trichomanes* L., 1, Köklü Village, mixed *Fagus* and *Abies* forest, 850-900 m., 41°42'25"K 32°50'29" D, 12.06.2015, T 4102, G.
- A. viride* Huds., 2, Zoni Alm, 41°43'32"K 32°37'46"D, 800-850 m., 12.06.2015, T 4103, G.
- Ceterach officinarum* Willd., 1, Yukarıalçı Neighborhood, 540-650 m., 41°37'03"K 32°36'46"D, 12.06.2015, T 4104, G.
- ATHYRIACEAE** / *Athyrium filix-femina* (L.) Roth, 2, Zoni Alm, 41°43'32"K 32°37'46"D, 700-800 m., 12.06.2015, T 4105, G.
- DENNSTAEDTIACEAE** / *Pteridium aquilinum* (L.) Kuhn, 2, Öküzölüsükaya Hill, 600-860 m., 41°43'13"K 32°37'02"D, 12.06.2015, T 4116, H.
- POLYPODIACEAE** / *Polypodium vulgare* L., 1, Between Aşağıçamlı Village and Kemerli Cave, 805-950 m., 22.06.2015, 41°42'29"K 32°48'12"D, T 3572, DUOF 7096, G.
- CYSTOPTERIDACEAE** / *Cystopteris fragilis* (L.) Bernh., 2, Öküzölüsükaya Hill, 860-900 m., 41°43'13"K 32°37'02"D, 12.06.2015, T 4106, G.
- SPERMATOPHYTA / GYMNOSPERMAE**
- PINACEAE** / *Abies nordmanniana* subsp. *equi-trojani* (Asc. & Sint. ex Boiss.) Coode & Cullen, 1, Arıt, 350-1100 m., 41°39'04"K 32°34'35"D, 12.06.2015, T 4107, Ph., Eu.Sib. el., E.
- Pinus brutia* Ten. var. *brutia*, 4, İlyasgeçidi location, 47°86'40"K 46°27'94"D, 180-250 m., 12.06.2015, T 4108, DUOF 7097, Ph., Med. el.
- P. nigra* J. F. Arnold subsp. *pallasiana* (Lamb.) Holmboe, 1, Ömeroğlu Neighbourhood, 250-750 m., 41°40'36"K 32°50'34"D, 12.06.2015, T 4109, DUOF 7098, Ph.
- P. sylvestris* L. var. *hamata* Steven, 2, Zoni Alm, 41°43'32"K 32°37'46"D, 900-1000 m., 12.06.2015, T 4110, DUOF 7099, Ph., Eu.Sib. el.
- P. pinaster* Aiton, 4, İlyasgeçidi location, 47°86'40"K 46°27'94"D, 180-250 m., 12.06.2015, T 4111, DUOF 7100, Ph.
- CUPRESSACEAE** / *Juniperus oxycedrus* L. subsp. *oxycedrus* var. *oxycedrus*, 1, Ulukaya Canyon, 200-700 m., 41°40'19"K 32°45'48"D, 12.06.2015, T 4112, DUOF 7101, Ph.
- TAXACEAE** / *Taxus baccata* L., 2, Zoni Alm, *Abies* forest, 800-1050 m., 41°43'32"K 32°37'46"D, 12.06.2015, T 4113, DUOF 7102, Ph.
- ANGIOSPERMAE / MAGNOLIATAE / ARISTOLACHIACEAE** / *Aristolochia pallida* Willd., 1, Ulukaya, Bayraklı Hill, rocky field, 400-800 m., 12.04.2015, 41°40'19"K 32°45'48"D, T 3587, DUOF 7103, H.
- A. pontica* Lam., 2, Zoni Alm, 41°43'32"K 32°37'46"D, 700-900 m., 23.04.2014, T 3075, DUOF 7104, H., Eu.Sib. el.
- LAURACEAE** / *Laurus nobilis* L., 4, Yeniköy location, maquis field, 47°89'97"K 46°29'93"D, 110-200 m., T 4114, DUOF 7105, Ph., Med. el.
- ARACEAE** / *Arum euxinum* R.R.Mill, 2, Çöpbey, 450-650 m., 41°42'3"K 32°35'13"D, T 4047, DUOF 7106, G, Eu.Sib. el., E.
- ALISMATACEAE** / *Alisma plantago-aquatica* L., 1, Drağna Valley, 450-500 m., 25.07.2014, 41°40'21"K 34°44'44"D, T 3496, DUOF 7107, Hy., Eu.Sib. el.
- CUCURBITACEAE** / *Bryonia alba* L., 1, above Arpacık Village, rocky field, 650-800 m., 41°39'51"K 32°41'50"D, T 4115, H., Eu.Sib. el.
- DIOSCOREACEAE** / *Dioscorea communis* (L.) Caddick & Wilkin, 1, Arıt road, Şahin Village, *abies* stand, 775-900 m., 41°39'04"K 32°34'35"D, T 3228, DUOF 7108, Ch.
- COLCHICACEAE** / *Colchicum bivonae* Guss., 1, Ulukaya Bayraklı Hill, 250-350 m., 41°40'19"K 32°45'48"D, T 4117, DUOF 7109, G., Med. el.
- C. speciosum* Steven, 2, Zoni Alm, 41°43'32"K 32°37'46"D, 800-900 m., T 4118, G, Eu.Sib. el.
- SMILACACEAE** / *Smilax excelsa* L., 1, Köklü Village, *Fagus-Abies* mixed forest, 650-850 m., 41°42'25"K 32°50'29"D, T 4119, Ch., Eu.Sib. el.
- LILIACEAE** / *Fritillaria pontica* Wahlenb., 1, Ulukaya Bayraklı Hill, 250-400 m., 13.04.2013, 41°40'19"K 32°45'48"D, T 2770, DUOF 7110, G., Eu.Sib. el.
- Lilium martagon* L., 1, Düzköy, *Pinus nigra* forest, 550-600 m., 41°39'25"K 32°46'13"D, T 3476, DUOF 7111, G., Eu.Sib. el., R.
- ORCHIDACEAE** / *Anacamptis coriophora* (L.) R.M.Bateman, Pridgeon & M.W.Chase, 2, 150-300 m, 19.05.2014, 41°37'51"K, 032°33'25"D, T 3287, DUOF 7112, G., Med. el.

- A. laxiflora* (Lam.) R.M.Bateman, Pridgeon & M.W.Chase, 2, Zindanlık Hill location, 400-650 m., 19.05.2014, 41°43'55"K 32°42'08"D, T 3332, DUOF 7113, G., Med. el.
- A. morio* (L.) R.M.Bateman, Pridgeon & M.W.Chase subsp. *caucasica* (K.Koch) H.Kretzschmar, Eccarius & H.Dietr., 3, Acarlar Village, 250-1000 m., 19.04.2014, 41°45'27"K 32°34'05"D, T 3043, DUOF 7114, G.
- A. pyramidalis* (L.) Rich., 2, Zindanlık Hill location, meadow field, 200-600 m, 09.06.2014, 41°37'51"K, 032°33'25"D, T 3385, DUOF 7115, G.
- Cephalanthera damasonium* (Mill.) Druce, 1, Kavakseydibaşı Hill, 700-900 m, 09.05.2015, 41°37'14 "K, 032°36'32"D, T 3631, DUOF 7116, G., Eu.Sib. el.
- C. epipactoides* Fisch. & C.A.Mey., 1, above Çerçi Village, below *Pinus nigra* stand, 41°36'09"K 32°34'50"D, 550-650 m., T 4120, G., Med. el.
- C. rubra* (L.) Rich., 1, Kavakseydibaşı Hill, in the forest, 450-910 m, 14.06.2015, 41°37'14"K, 032° 36' 32"D, T 4121, G., Eu.Sib. el.
- Dactylorhiza nieschalkiorum* H.Baumann & Künkele, 1, Tekmenoğlu Neighbourhood, 250-900 m, 14.07.2014, 41°32'40"K, 032°33'25"D, T 3445, DUOF 7117, G, E.
- D. iberica* (M.Bieb. ex Willd.) Soó, 3, Acarlar Village, Akçabelen Neighbourhood, meadow field, 175-700 m., 14.07.2014, 41°45'27"K 32°34'05"D, T 3447, DUOF 7118, G., Med. el.
- D. romana* (Sebast.) Soó, 2, Örenkaya Hill, in the forest, 650-700 m, 12.04.2015, 41°42'51"K 033°39'52"D, T 3528, DUOF 7119, G., Med. el.
- D. saccifera* (Brongn.) Soó, 1, Tekmenoğlu Neighbourhood, 450-800 m, 14.07.2015, 41°32'40"K 032°33'25"D, T 3439, DUOF 7120, G.
- D. incarnata* (L.) Soó, 2, Zindanlık Hill location, 400-650m., 14.05.2017, 41°43'55"K 32°42'08"D, T 4274, DUOF 7121, G., R.
- Epipactis helleborine* (L.) Crantz subsp. *densifolia* (W.Hahn, Passin & R.Wegener) Kreutz, 1, above Çerçi Village, below *Pinus nigra* stand, 41°36'09"K 32°34'50"D, 550-600 m., T 4122, G.
- E. helleborine* (L.) Crantz subsp. *helleborine*, 1, Kavakseydibaşı Hill, 750-910 m, 19.05.2014, 41°37' 14"K 032°36'32"D, T 3329, DUOF 7122, G.
- E. microphylla* (Ehrh.) Sw., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 600-800 m., 16.06.2015, T 3594, DUOF 7123, G., Eu.Sib. el.
- E. palustris* (L.) Crantz, 1, Kavakseydibaşı Hill, meadow field, 800-900 m, 14.07.2014, 41°37'14"K 032°36'32"D, T 3440, DUOF 7124, G.
- Limodorum abortivum* (L.) Sw., 2, Örenkaya Hill, 400-650 m, 19.05.2014, 41°42'51"K 033°39'25"D, T 3273, DUOF 7125, G.
- Neotinea tridentata* (Scop.) R.M.Bateman, Pridgeon & M.W.Chase, 3, Acarlar Village, 175-400 m., 01.05.2013, 41°45'27"K 32°34'05"D, T 3055, DUOF 7126, G., Med. el.
- Neottia nidus-avis* (L.) Rich., 2, Zoni Alm, 41°43'32"K 32°37'46"D, 800-1000 m., 16.06.2015, T 3591, DUOF 7127, G., Eu.Sib. el.
- Orchis purpurea* Hudson x *Orchis simia* Lam, 2, Zindanlık Hill, 450-600 m, 09.05.2015, 41°37'51"K 032°33'25"D, T 3635, DUOF 7128, G.
- O. mascula* (L.) L., 1, Kavakseydibaşı Hill, in the forest, 750-910 m, 01.05.2013, 41°37'14"K 032°36'32"D, T 3077, DUOF 7129, G., Med. el.
- O. provincialis* Balb. ex Lam. & DC., 1, above Çerçi Village, meadow field, 41°36'09"K 32°34'50"D, 560 m., 14.05.2017, T 4263.
- O. purpurea* Huds. subsp. *caucasica* (Regel) B.Baumann & al., 2, Zindanlık Hill, meadow field, 650-700 m, 19.05.2014, 41°37'51"K 032°33'25"D, T 3296, DUOF 7130, G., Eu.Sib. el.
- O. purpurea* Huds. subsp. *purpurea*, 3, Acarlar Village, above Akçabelen Neighbourhood, meadow field, 250-700 m., 41°45'27"K 32°34'05"D, T 4124, G.
- O. pallens* L., 1, Kavakseydibaşı Hill, in the forest, 700-910 m, 09.06.2014, 41°37'14"K 032° 36' 32"D, T 3123, DUOF 7131, G., Eu.Sib. el.
- O. simia* Lam., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 650-800 m., 23.04.2015, T 3616, DUOF 7132, G., Med. el.
- Ophrys apifera* Huds., 1, Ulukaya Waterfall, 300-500 m, 19.04.2014, 41°40'06"K 032°45'52"D, T 2810, DUOF 7133, G.
- O. oestrifera* M. Bieb. subsp. *oestrifera*, 2, Zindanlık Hill location, meadow field, 250-600 m, 14.06.2015, 41°37'51"K 032°33'25"D, T 4125, G.



- O. sphegodes* Miller subsp. *mammosa* (Desf.) Soó ex E.Nelson, 1, Abdurrahman Village, meadow field, 500-750 m., 09.05.2015 41°43'24" K 32°44'41" D, T 3633, DUOF 7134, G.
- Platanthera bifolia* (L.) Rich., 1, Ekşioğlu Neighbourhood, Gökpınar location, in the forest, 600-750 m., 14.06.2014, 41°38'10"K 032°47'16"D, T 3392, DUOF 7135, G., Eu.Sib. el.
- Serapias orientalis* (Greuter) H.Baumann & Künkele, 2, Zindanlık Hill location, meadow field, 200-470 m., 01.05.2013, 41° 37'51"K 032°33' 25"D, T 2816, DUOF 7136, G., Med. el.
- Spiranthes spiralis* (L.) Chevall., 1, above Abdurrahman Village, meadow field, 400-650 m., 41°43'24"K 32°44'41"D, T 4126, G.
- Steveniella satyrioides* (Spreng.) Schltr., 1, Arit road, above Şahin Village, 775-800 m., 41°39'04"K 32°34'35"D, T 4030, DUOF 7137, G., Eu.Sib. el.
- IRIDACEAE / *Crocus ancycensis*** (Herb.) Maw., 1, Dereli Village, 450-640 m., 41°40'39"K 32°48'12" D, T 4127, G, Ir-Tur. el., E.
- Gladiolus italicus* Mill., 1, Ulukaya, 350-424 m., 21.05.2013, 41°40'19"K 32°45'48"D, T 2855, DUOF 7138, G., Ir-Tur. el.
- Iris sintenisii* Janka, 1, Alıçlı, Kemerli Cave, rocky field, 650-805 m., 11.05.2014, 41°42'29"K 32°48'12" D, T 3199, DUOF 7139, G., Eu.Sib. el.
- I. suaveolens* Boiss. & Reut., 1, above Köklü Village, rocky field, 800-853m., 23.04.2014, 41°42'25"K 32°50'29"D, T 3118, DUOF 7140, G.
- I. pseudacorus* L., 3, Acarlar Village, above Akçabelen Neighbourhood, meadow field, 200 m., 14.05.2017, 41°45'27"K 32°34'05"D, T 4260, G.
- XANTHORRHOACEAE / *Asphodeline lutea*** (L.) Reichb., 1, Drahna Valley, rocky field, 700-950 m., 19.04.2014, 41°40'21"K 34°44'44"D, T 3032, DUOF 7141, G., Med. el.
- AMARYLLIDACEAE / *Allium olympicum*** Boiss., 1, Drahna Valley, 500-950 m., 09.06.2014, 41°40'21"K 34°44'44"D, T 3562, DUOF 7142, G., Eu.Sib. el., E.
- A. rotundum* L., 3, Acarlar Village, 175-600 m., 14.07.2014, 41°45'27"K 32°34'05"D, T 3393, DUOF 7143, G., Med. el.
- A. wiedemannianum* Regel, 1, Kavakseydibaşı Hill, 900-910 m., 14.07.2014, 41°37'14"K 032°36'32" D, T 3467, DUOF 7144, G.
- Galanthus plicatus* M. Bieb. subsp. *plicatus* (Baker) D.A.Webb, 1, Drahna Valley, 300-550 m., 15.02.2014, 41°40'21"K 34°44'44"D, T 2932, DUOF 7145, G.
- Leucojum aestivum* L., 2, Çöpbey, fieldside, 450-470 m., 41°42'3"K 32°35'13"D, T 4128, G., Eu.Sib. el., R.
- ASPARAGACEAE / *Bellevalia clusiana*** Griseb., 1, Köklü Village, 800-853 m., 23.04.2014, 41°42'25"K 32°50'29"D, T 3095, DUOF 7146, G, Ir-Tur. el., E.
- Muscari armeniacum* Leichtlin ex Baker, 1, Ulukaya Village, 200-750 m., 22.03.2014, 41°37'03"K 32°36'46"D, T 2989, DUOF 7147, G.
- Ornithogalum fimbriatum* Willd., 3, Acarlar Village, 175-600 m., 01.03.2014, 41°45'27"K 32°34'05" D, T 2947, DUOF 7148, G., Med. el.
- O. umbellatum* L., 4, Yeniköy location, 47°89'97"K 46°29'93"D, 115-250 m., 19.05.2015, T 3653, G.
- O. narbonense* L., 3, Kocaköy, 190-420 m., 22.06.2015, 41°41'15"K 32°29'23"D, T 3341, DUOF 7149, G., Med. el.
- O. wiedemannii* Boiss. var. *wiedemannii*, 1, Ulukaya Waterfall, 300-350 m., 14.05.2017, 41°40'06"K 032°45'52"D, T 4252, G.
- O. sigmoideum* Freyn & Sint., 1, Çerçi Village, Arit road, 41°36'09"K 32°34'50"D, 560 m., 14.05.2017, T 4253, G.
- Polygonatum orientale* Desf., 2, Zoni Alm, below *Abies* forest, 41°43'32"K 32°37'46"D, 800-900 m., T 4029, DUOF 7150, G., Eu.Sib. el.
- Ruscus hypoglossum* L., 1, Arit road, above Şahin Village, 680-775 m., 41°39'04"K 32°34'35"D, T 4129, H., Eu.Sib. el.
- R. aculeatus* L., 1, Köklü Village, abies forest, 750-853 m., 12.04.2015, 41°42'25"K 32°50'29"D, T 3521, DUOF 7151, H.
- Scilla bithynica* Boiss., 1, Ulukaya, Bayraklı Hill location, 250-424 m., 23.03.2014, 41°40'19"K 32°45'48"D, T 3513, DUOF 7152, G., Eu.Sib. el.

- JUNCACEAE** / *Juncus effusus* L., 1, Aşağıköy, Aşağıdere Neighbourhood, side of the stream, 200-265 m., 41°37'28"K 32°38'51"D, T 4130, Hy.
- Luzula forsteri* (Sm.) DC., 1, Arit road, Şahin Village, 600-775 m., 23.04.2014, 41°39'04"K 32°34'35"D, T 3062, DUOF 7153, H., Eu.Sib. el.
- L. multiflora* (Ehrh.) Lej., 3, Şükürler Village, meadow field, 41°42'28"K 32°32'05"D, 195-300 m., 19.05.2015, T 3655, DUOF 7154, H.
- L. sylvatica* (Huds.) Gaudin, 4, İlyasgeçidi location, humid meadow, 47°86'40"K 46°27'94"D, 182-250 m., T 3579, DUOF 7155, H., Eu.Sib. el.
- CYPERACEAE** / *Carex panicea* L., 3, Şükürler Village, 41°42'28"K 32°32'05"D, 195 m., 22.06.2015, T 3545, DUOF 7156, H., Eu.Sib. el.
- C. pendula* Huds., 1, Arit road, above Şahin Village, 550-775 m., 16.06.2015, 41°39'04"K 32°34'35"D, T 3605, DUOF 7157, H., Eu.Sib. el.
- C. spicata* Huds., 4, Yeniköy location, meadow field, 47°89'97"K 46°29'93"D, 115-250 m., 19.05.2015, T 3656, DUOF 7158, H., Eu.Sib. el.
- Scirpus sylvaticus* L., 2, Zoni Alm, 41°43'32"K 32°37'46"D, 600-800 m., 16.06.2015, T 3592, DUOF 7159, H., Eu.Sib. el.
- POACEAE** / *Avena barbata* Pott ex Link, 4, Aydoğmuş location, 47°28'12"K 46°26'28"D, 215-300 m., 19.05.2014, T 3270, DUOF 7160, Th., Med. el.
- Aira elegantissima* Schur. subsp. *elegantissima*, 3, Şükürler Village, Yapıkayası Hill location, 41°42'28"K 32°32'05"D, 195-250 m., 15.06.2015, T 4057, DUOF 7161, Th., Med. el.
- Briza maxima* L., 4, Sarıderesi location, meadow field, 300-380 m, 19.05.2014, 46°77' 83"K 046° 21' 20"D, T 4055, DUOF 7162, H.
- B. media* L., 4, İlyasgeçidi location, meadow field, 47°86'40"K 46°27'94"D, 182-200 m., 14.06.2014, T 4054, DUOF 7163, H.
- Bromus arvensis* L., 4, Sarıderesi location, meadow field, 300-380 m, 19.06.2015, 46°77'83"K 046°21'20"D, T 4076, DUOF 7164, Th.
- B. japonicus* Thunb. subsp. *japonicus*, 1, Kavakseydibaşı Hill, meadow field, 750-910 m, 14.06.2015, 41°37'14"K 032°36'32"D, T 4131, Th.
- Brachypodium pinnatum* (L.) P.Beauv., 4, Sarıderesi location, meadow field, 380-400 m, 22.06.2015, 46°77'83"K 046°21'20"D, T 3546, DUOF 7165, H., Eu.Sib. el.
- B. sylvaticum* (Huds.) P.Beauv., 2, Zoni Alm, 41°43'32"K 32°37'46"D, 650-800 m., 16.06.2015, T 4132, H., Eu.Sib. el.
- Cynodon dactylon* (L.) Pers., 3, Şükürler Village, meadow field, 41°42'28"K 32°32'05"D, 195-450 m., 16.06.2015, T 4133, H.
- Cynosurus echinatus* L., 3, Şükürler Village, 41°42'28"K 32°32'05"D, 195-350 m., 22.06.2015, T 3416, DUOF 7166, Th., Med. el.
- C. cristatus* L., 1, Drağna Valley, Kemerli Cave, 800-850 m, 01.05.2015, 41°41'06"K, 032°46' 52"D, T 3582, DUOF 7167, H., Eu.Sib. el.
- Chrysopogon gryllus* (L.) Trin., 4, Ziyaretköy location, meadow field, 47°84'70"K 46°25'88"D, 280-350 m., 22.06.2015, T 3557, DUOF 7168, H.
- Dactylis glomerata* L. subsp. *hispanica* (Roth) Nyman, 1, Kavakseydibaşı Hill, 250-910 m, 14.06.2015, 41°37'14"K 032°36'32"D, T 4134, H.
- Elymus repens* (L.) Gould, 2, Zindanlık Hill location, 250-470 m, 14.06.2015, 41°37'51"K 032°33'25"D, T 4135, H., Ir-Tur. el.
- Festuca drymeja* Mert. & W.D.J.Koch, 1, Kavakseydibaşı Hill, 900-910 m, 14.06.2015, 41°37'14"K 032°36'32"D, T 4136, H., Eu.Sib. el.
- F. heterophylla* Lam., 4, Sarıderesi location, meadow field, 350-380 m, 19.05.2015, 46°77'83"K 046°21' 20"D, T 4044, DUOF 7169, H.
- Hordeum bulbosum* L., 1, Drağna Valley, in front of the Kemerli Cave, rocky field, 600-850 m, 01.05.2015, 41°41'06"K 032°46'52"D, T4137, G.
- Lolium perenne* L., 4, İlyasgeçidi location, 47°86'40"K 46°27'94"D, 180-250 m., 23.04.2014, T 3056, DUOF 7170, H., Eu.Sib. el.
- Trisetum flavescens* (L.) P.Beauv., 1, at the road of Kemerli Cave, 650-850 m, 01.05.2015, 41°41'06 "K 032°46'52"D, T 4138, H., Eu.Sib. el.



- Phleum pratense* L., 3, Şükürler Village, 41°42'28"K 32°32'05"D, 195-250 m., 11.05.2014, T 3186, DUOF 7171, H., Eu.Sib. el.
- Poa angustifolia* L., 4, İlyasgeçidi location, meadow field, 47°86'40"K 46°27'94"D, 182-300 m., 19.05.2014, T 3314, DUOF 7172, H.
- P. bulbosa* L., 1, Kavakseydibaşı Hill, meadow field, 700-910 m, 19.05.2015, 41°37'14"K 032°36'32"D, T 3654, DUOF 7173, H.
- Melica uniflora* Retz., 1, above Çerçi Village, 41°36'09"K 32°34'50"D, 500-560 m., 14.05.2017, T 4261, DUOF 7174, H., Eu.Sib. el.
- PAPAVERACEAE / *Chelidonium majus*** L., 1, Tekmenoğlu Neighbourhood, 270-350 m, 19.04.2014, 41°32'40"K 032°33'25"D, T 2822, DUOF 7175, H., Eu.Sib. el.
- Corydalis caucasica* DC. subsp. *abantensis* Lidén, 1, Kemerli Cave, 700-850 m, 23.04.2014, 41°41'06"K 032°29'46"D, T 2999, DUOF 7176, G., E.
- Fumaria officinalis* L. subsp. *officinalis*, 2, at the road of Sipahiler Cave, 525-680 m, 13.04.2013, 41°37'02"K 32°30'04"D, T 3005, DUOF 7177, Th.
- Papaver dubium* L., 1, in front of the Kemerli Cave, rocky field, 640-850 m, 22.06.2015, 41°41'06"K 032°46'52"D, T 3154, DUOF 7178, Th.
- P. rhoeas* L., 1, Kavakseydibaşı Hill, meadow field, 450-910 m, 14.06.2015, 41°37'14"K 032°36'32"D, T 4139, Th.
- BERBERIDACEAE / *Epimedium pubigerum*** (DC.) C.Morren & Decne., 1, Köklü Village, 650-853 m., 12.04.2015, 41°42'25"K 32°50'29"D, T 3522, DUOF 7179, H., Eu.Sib. el.
- RANUNCULACEAE / *Anemone blanda*** Schott & Kotschy, 1, Ulukaya Waterfall, 300-350 m, 22.02.2014, 41°40'06"K 032°45'52"D, T 2937, G.
- A. nemorosa* L., 1, above Köklü Village, 853-900 m., 11.05.2015, 41°42'25"K 32°50'29"D, T 3087, DUOF 7180, G., Eu.Sib. el.
- Clematis vitalba* L., 3, Aliobası Village, above Dağköy Neighbourhood, maquis field, 340-550 m., 15.06.2013, 41°43'30"K 32°33'28"D, T 2888, Ph.
- C. viticella* L., 3, Aliobası Village, above Dağköy Neighbourhood, maquis field, 340-500 m., 19.05.2014, 41°43'30"K 32°33'28"D, T 3334, Ph.
- Consolida orientalis* (J.Gay) Schrödinger, 1, Kirazcık Village, fieldside, 725-750 m., 19.05.2014, 41°39'06"K 32°40'47"D, T 3337, Th.
- Delphinium fissum* Waldst. et Kit. subsp. *anatolicum* Chowdhuri & P.H.Davis, at the entrance of Kemerli Cave, maquis field, 800-850 m, 22.06.2015, 41°41'06"K 032°46'52"D, T 3569, H., E.
- Ficaria verna* Huds. subsp. *ficariiformis* (Rouy & Foucaud) B.Walln., 1, above Abdurrahman Village, meadow field, 500-875 m., 22.03.2014, 41°43'24"K 32°44'41"D, T 2967, G.
- Helleborus orientalis* Lam., 1, Drahna road, below *Pinus nigra* forest, 450-650 m, 41°37'26"K, 032°40'32"D, T 4140, H., Eu.Sib. el.
- Nigella damascena* L., 1, Drahna, 250-400 m, 22.06.2015, 41°41'06"K, 032°46'52"D, T 3564, T.
- Ranunculus brutius* Ten., 1, above Abdurrahman Village, 500-875 m., 14.05.2017, 41°43'24"K 32°44'41"D, T 4249, DUOF 7181, H.
- R. trichophyllus* Chaix ex Vill., 4, Yeniköy location, meadow field, 47°89'97"K 46°29'93"D, 115 m., 23.04.2014, T 4176, H.
- R. chius* DC., 1, above Köklü Village, Katırcıkbaşı Hill location, 700-853 m., 19.04.2014, 41°42'25" K 32°50'29"D, T 3036, Th.
- R. constantinopolitanus* (DC.) d'Urv., 1, Köklü Village, Karavuran Hill, 400-853 m., 27.03.2013, 41°42'25"K 32°50'29"D, T 3637, DUOF 7182, H.
- R. gracilis* E.D.Clarke, 3, Şükürler Village, Yapıkayası Hill location, 23.04.2014, 41°42'28"K 32°32'05"D, 195-340 m., T 3030, H.
- R. marginatus* Da'Urv. subsp. *trachycarpus* Hayek, 2, Zoni Alm, meadow field, 41°43'32"K 32°37'46"D, 700-800 m., 09.06.2014, T 3372, Th.
- R. muricatus* L., 2, Çöpbey, Yapıkayası Hill location, rocky field, 600-670 m., 19.04.2014, 41°42'3"K 32°35'13"D, T 3012, Th.
- R. neapolitanus* Ten., 1, above Ulukaya Waterfall, 350-450 m, 27.03.2013, 41° 40' 06"K, 032°45'52" D, T 3236, DUOF 7183, H.
- R. repens* L., 2, Zoni Alm, below *abies* forest, 41°43'32"K 32°37'46"D, 640-800 m., 23.04.2015, T 4012, DUOF 7184, H.

- R. ophioglossifolius* Vill., 4, İlyasgeçidi location, humid meadow, 47°86'40"K 46°27'94"D, 182-250 m., 23.04.2014, T 3129, Th.
- PLATANACEAE / *Platanus orientalis* L.**, 1, Köklü Village road, 350-453 m., 48°56'91"K 46°15'71" D, T 4141, DUOF 7185, Ph.
- BUXACEAE / *Buxus sempervirens* L.**, 2, Zoni Alm, 41°43'32"K 32°37'46"D, 650-1000 m., T 4142, DUOF 7186, Ph., Eu.Sib. el.
- PAEONIACEAE / *Paeonia peregrina* Mill.**, 1, above Ulukaya Waterfall, 350-400 m, 01.05.2014, 41°40'06"K, 032° 45'52"D, T 3148, DUOF 7187, H.
- SAXIFRAGACEAE / *Saxifraga cymbalaria* L.**, 4, İlyasgeçidi location, 47°86'40"K 46°27'94"D, 182-250 m., T 4067, DUOF 7188, Th.
- S. rotundifolia* L., 1, above Ulukaya Waterfall, 350-400 m, 01.05.2014, 41°40'06"K 032° 45'52"D, T 3137, DUOF 7189, H., Eu.Sib. el.
- CRASSULACEAE/ *Hylotelephium telephioides* (Michx.) H. Ohba**, 1, above Dereli Village, rocky field, 640-700 m, 14.07.2014, 41°40'39"K 32°48'12"D, T 3458, DUOF 7190, Th.
- Sedum stoloniferum* S.G.Gmel., 1, above Çerçi Village, rocky field, 41°36'09"K 32°34'50"D, 560-650 m., 14.07.2014, T 3427, DUOF 7191, H.
- S. album* L., 1, above Çerçi Village, rocky field, 41°36'09"K 32°34'50"D, 300-800 m., 14.07.2014, T 3448, DUOF 7192, H.
- S. acre* L., 1, Arit road, Samanyeri location, rocky field, 41°36'10"K 32°32'62"D, 550-600 m., 19.07.2014, T 3477, DUOF 7193, H.
- S. pallidum* M. Bieb. var. *bithynicum* (Boiss.) D.F.Chamb., 1, Kemerli Cave, rocky field, 450-850 m, 11.05.2014, 41°41'06"K 032°46'52"D, T 3167, DUOF 7194, H., Eu.Sib. el.
- S. pallidum* M. Bieb. var. *pallidum*, 1, at the entrance of Kemerli Cave, 500-850 m, 19.07.2014, 41°41'06"K, 032° 46' 52"D, T 3504, DUOF 7195, Th.
- Sempervivum armenum* Boiss. & A. Huet var. *armenum*, 1, Dereli Village, 640-700 m, 41°40'39"K 32°48'12"D, T 4007, DUOF 7196, H., Eu.Sib. el.
- FABACEAE (LEGUMINOSAE) / *Astragalus glycyphylloides* DC.**, 1, Drahna Valley, 850-900 m, 22.06.2015, 41°41'06"K, 032°46'52"D, T 3565, DUOF 7197, H., Eu.Sib. el.
- A. angustifolius* Lam. subsp. *pungens* (Willd.) Hayek, 1, above Köklü Village, 853-900 m., 09.05.2015, 41°42'25"K 32°50'29"D, T 3636, DUOF 7198, Ch.
- Anthyllis vulneraria* L. subsp. *boissieri* (Sagorski) Bornm., 3, Çanakçılar Village, 250-470 m., 23.04.2015, 41°42'41"K 32°31'15"D, T 3617, DUOF 7199, H.
- Argyrolobium biebersteinii* P.W.Ball, 1, above Ulukaya Waterfall, 200-350 m, 11.05.2014, 41° 40' 06" K, 032° 45'52 "D, T 3193, DUOF 7200, H.
- Bituminaria bituminosa* (L.) C.H.Stirt., 1, Ulukaya Village, 200-550 m, 11.05.2014, 41°40'06"K, 032° 45' 52 "D, T 3226, DUOF 7201, H., Med. el.
- Cytisus hirsutus* L., 2, Çöpbey, Yapıkayası Hill location, rocky field, 670-700 m., 23.04.2014, 41°42'3"K 32°35'13"D, T 4011, DUOF 7202, Ch.
- Coronilla scorpioides* (L.) Koch, 2, Zindanlık Hill location, 510-600 m., 23.04.2014, 41°43'55"K 32°42'08"D, T 3034, DUOF 7203, Th.
- Colutea cilicica* Boiss. & Balansa, 1, Drahna Valley, rocky field, 700-770 m, 01.05.2015, 41°40'40"K, 034°45'41"D, T 4143, Ph.
- Dorycnium graecum* (L.) Ser., 2, Şahin Village, 650-775 m., 11.05.2014, 41°39'04"K 32°34'35"D, T 3177, DUOF 7204, Ch., Eu.Sib. el.
- Genista tinctoria* L., 1, Çerçi Village, 41°36'09"K 32°34'50"D, 300-560 m., 19.05.2014, T 3290, DUOF 7205, Ch., Eu.Sib. el.
- G. lydia* Boiss., 1, Drahna Valley, rocky field, 250-770 m, 23.04.2014, 41°40'40"K, 034°45'41"D, T 2801, DUOF 7206, Ch., Med. el.
- Hippocrepis unisiliquosa* L. subsp. *unisiliquosa*, 2, Zindanlık Hill, 510-550 m., 11.05.2014, 41°43' 55"K 32°42'08"D, T 3251, Th.
- Medicago lupulina* L., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 250-800 m., 13.04.2013, T 2796, DUOF 7207, Ch.
- M. x varia* Martyn, 3, Çanakçılar Village, meadow field, 370-500 m., 16.06.2015, 41°42'41"K 32°31' 15" D, T 3606, DUOF 7208, H.

- M. arabica* (L.) Huds., 1, above Ulukaya Waterfall, 350-640 m, 23.04.2014, 41°40'06"K, 032°45'52" D, T 3091, DUOF 7209, Th.
- M. minima* (L.) L., 1, near Ulukaya Waterfall, 150-350 m, 11.05.2014, 41°40'06"K, 032°45'52"D, T 3215, DUOF 7210, Th.
- M. sativa* L. subsp. *sativa*, 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 550-800 m., 14.06.2014, T 3442, DUOF 7211, H.
- M. falcata* L., 1, above Çerçi Village, 41°36'09"K 32°34'50"D, 500-560 m., 01.05.2015, T 4144, H.
- Lathyrus aphaca* L var. *floribundus* (Vel.) K. Maly, 1, Çerçi Village, 41°36'09"K 32°34'50"D, 500-560 m., T 2821, DUOF 7212, Th.
- L. vernus* (L.) Bernh., 3, Acarlar Village, Akçabelen Neighbourhood, 175 m., 09.06.2014, 41°45'27"K 32°34'05"D, T 3389, H., Eu-Sib. el.,
- L. laxiflorus* (Desf.) Kuntze subsp. *laxiflorus*, 1, Arit road, 450-775 m., 27.03.2013, 41°39'04"K 32°34'35"D, T 3049, DUOF 7213, H.
- L. aureus* (Steven) D.Brandza, 1, Arit road, Şahin Village, 650-775 m., 19.05.2015, 41°39'04"K 32°34'35"D, T 3673, DUOF 7214, H., Eu.Sib. el.
- L. nissolia* L., 3, Şükürler Village, meadow field, 41°42'28"K 32°32'05"D, 195-240 m., 11.05.2014, T 3158, DUOF 7215, Th.
- L. setifolius* L., 1, above Çerçi Village, *Pinus nigra* stand, 41°36'09"K 32°34'50"D, 440-560 m., 22.03.2014, T 2776, DUOF 7216, Th.
- Lotus corniculatus* L. var. *corniculatus*, 3, Çanakçılar Village, 370-540 m., 20.06.2013, 41°42'41"K 32°31'15"D, T 2907, DUOF 7217, H.
- L. ornithopodioides* L., 1, Kavakseydibaşı Hill, in the forest, 400-550 m, 14.06.2015, 41°37'14"K, 032°36'32"D, T 4146, Th., Med. el.
- L. tenuis* Waldst. & Kit. ex Willd., 1, above Ulukaya Waterfall, 350-450 m, 20.06.2013, 41°40'06"K, 32°45'52"D, T 2908, H.
- Melilotus officinalis* (L.) Pall., 1, above Ulukaya Waterfall, 350-400 m, 11.05.2014, 41°40'06"K, 032°45'52"D, T 3214, DUOF 7218, Th.
- M. albus* Desr., 3, Çanakçılar Village, roadside, 370-440 m., 09.05.2015, 41°42'41"K 32°31'15"D, T 3373, DUOF 7219, Th.
- Ornithopus compressus* L., 2, Çöpbey location, 500-670 m., 41°42'3"K 32°35'13"D, 15.06.2015, T 4015, DUOF 7220, Th., Med. el.
- Ononis spinosa* L. subsp. *leiosperma* (Boiss.) Sirj., 3, Şükürler Village, 41°42'28"K 32°32'05"D, 195-300 m., 14.07.2014, T 3455, DUOF 7221, H.
- O. viscosa* L. subsp. *breviflora* (DC.) Nyman, 1, Abdurrahman Village, 41°39'07"K 34°40'32"D, 250-550 m., 19.05.2014, T 4048, DUOF 7222, Th., Med. el.
- Onobrychis viciifolia* Scop., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 650-800 m., 11.05.2014, T 3208, DUOF 7223, H.
- O. oxyodonta* Boiss., 2, Çöpbey Yapıkayası Hill location, rocky field, 400-670 m., 14.06.2014, 41°42'3"K 32°35'13"D, T 3405, DUOF 7224, H.
- Pisum sativum* L. subsp. *elatius* (M.Bieb.) Asch. & Graebn., 3, Çanakçılar Village, 370-450 m., 01.05.2014, 41°42'41"K 32°31'15"D, T 3150, DUOF 7225, Th., Med. el.
- Robinia pseudoacacia* L., 3, Epçiler Village, Sipahiler Cave road, 310-350 m., 41°36'46"K 32°28'04" D, T 4147, Ph.
- Securigera varia* (L.) Lassen, 1, above Ulukaya Waterfall, 350-600 m, 21.05.2013, 41°40'06"K, 032° 45'52"D, T 2862, DUOF 7226, H.
- Spartium junceum* L., 3, Çanakçılar Village, 250-370 m., 19.05.2014, 41°42'41"K 32°31'15"D, T 3263, DUOF 7227, Ph., Med. el.
- Scorpiurus muricatus* L., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 650-740 m., 11.05.2014, T 3201, DUOF 7228, Th., Med. el.
- Sophora jaubertii* Spach, 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 200-600 m., 23.04.2014, T 3092, DUOF 7229, G., Eu.Sib. el.
- Trifolium repens* L. var. *repens*, 1, above Çerçi Village, *Pinus nigra* stand, 41°36'09"K 32°34'50"D, 450-560 m., 09.05.2015, T 3629, DUOF 7230, H.

- T. subterraneum* L., 4, Yeniköy location, 47°89'97"K 46°29'93"D, 115 m., 23.04.2014, T 4181, Th.
- T. patens* Schreb., 3, Aliobaşı Village, 340 m., 25.07.2014, 41°43'30"K 32°33'28"D, T 3509, Th.
- T. arvense* L. var. *arvense*, 1, Kavakseydibaşı Hill, meadow field, 300-580 m, 19.05.2014, 41°37'14"K 032°36'32"D, T 3261, DUOF 7231, Th.
- T. resupinatum* L. var. *resupinatum*, 1, Kavakseydibaşı Hill, 250-670 m, 11.05.2014, 41°37'14"K 032°36'32"D, T 3159, DUOF 7232, Th.
- T. angustifolium* L., 1, Kavakseydibaşı Hill, meadow field, 300-450 m, 19.05.2014, 41° 37'14"K 032° 36' 32"D, T 3318, DUOF 7233, Th.
- T. pratense* L. var. *pratense*, 1, near Ulukaya Waterfall, 350-540 m, 13.04.2013, 41°40'06"K, 032°45' 52" D, T 3173, DUOF 7234, H.
- T. echinatum* M.Bieb., 2, Zindanlık Hill location, meadow field, 170-470 m, 19.05.2014, 41°37'51" K, 032°33'25" D, T 3256, DUOF 7235, Th., Med. el.
- T. campestre* Schreb., 1, Çerçi Village, *Pinus nigra* stand, 41°36'09"K 32°34'50"D, 370-560 m., 19.05.2014, T 3268, DUOF 7236, Th.
- T. medium* L. subsp. *medium*, 1, Kavakseydibaşı Hill, meadow field, 250-910 m, 21.05.2013, 41°37' 14" K 032°36'32"D, T 2883, DUOF 7237, H.
- T. stellatum* L. var. *stellatum*, 4, İlyasgeçidi location, moist meadow, 47°86'40"K 46°27'94"D, 182-250 m., T 4066, DUOF 7238, Th.
- Vicia cracca* L. subsp. *cracca*, 1, Drahna Valley, 650-770 m, 14.04.2014, 41°40'40"K, 034°45'41"D, T 3051, DUOF 7239, H., Eu.Sib. el.
- V. lathyroides* L., 3, Acarlar Village, Akçabelen Neighbourhood, 175 m., 19.05.2014, 41°45'27"K 32°34'05" D, T 3395, Th.
- V. narbonensis* L. var. *narbonensis*, 1, above Köklü Village, 480-853m., 23.04.2014, 41°42'25"K 32°50'29"D, T 3131, DUOF 7240, Th.
- V. peregrina* L., 1, Köklü Village, Karavuran Hill location, meadow field, 300-550 m., 41°42'25"K 32°50'29"D, T 4148, Th.
- V. grandiflora* Scop. var. *grandiflora*, 1, Drahna Valley, 420-500 m, 19.05.2014, 41°40'40"K, 034°45' 41"D, T 3315, DUOF 7241, Th.
- V. lutea* L. var. *hirta* (Balbis) Lois., 2, above Söğütlü Village, 640-815m., 19.05.2014, 41°43'27"K 32°42'39"D, T 3344, DUOF 7242, Th.
- V. bithynica* (L.) L., 1, above Çerçi Village, *Pinus nigra* forest, 41°36'09"K 32°34'50"D, 290-560 m., 11.05.2014, T 3156, DUOF 7243, Th.
- V. villosa* Roth. subsp. *villosa*, 1, Kavakseydibaşı Hill, rocky field, 550-910 m, 14.06.2015, 41°37'14" K, 032° 36' 32"D, T 4149, Th.
- V. sativa* L. subsp. *sativa*, 1, above Çerçi Village, *Pinus nigra* forest, 41°36'09"K 32°34'50"D, 430-560 m., 19.04.2014, T 3093, DUOF 7244, Th.
- V. crocea* (Desf.) Fritsch, 2, Örenkaya Hill, 420-670 m, 14.06.2015, 41°42'51"K, 033°39'25"D, T 4004, DUOF 7245, H., Eu.Sib. el.
- V. loiseleurii* (M.Bieb.) Litv., 4, İlyasgeçidi location, 47°86'40"K 46°27'94"D, 182-200 m., 19.05.2015, T 4042, DUOF 7246, Th., Eu.Sib. el.
- V. pannonica* Crantz var. *purpurascens* Ser., 2, Örenkaya Hill, 350-670 m, 23.04.2014, 41°42'51"K, 033° 39' 25" D, T 3125, DUOF 7247, Th.
- POLYGALACEAE / *Polygala comosa*** Schkuhr, 1, Ulukaya Waterfall, 350-650 m, 22.02.2014, 41°40'06"K 032° 45'52"D, T 2792, DUOF 7248, Ch.
- P. supina* Schreb., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 450-800 m., 01.03.2014, T 2781, DUOF 7249, Ch.
- ROSACEAE / *Alchemilla caucasica*** Buser, 1, Çerçi Village, 670-700 m, 23.04.2014, 41°40'39"K 32°48'12" D, T 3027, DUOF 7250, H., Eu.Sib. el.
- Agrimonia eupatoria* L. subsp. *eupatoria*, 1, Kavakseydibaşı Hill, 740-910 m, 14.06.2014, 41°37'14"K, 032°36' 32"D, T 2882, DUOF 7251, H.
- A. repens* L., 4, Yeniköy location, meadow, 47°89'97"K 46°29'93"D, 480-660 m., 14.06.2014, T 3434, DUOF 7252, H.
- Amelanchier rotundifolia* (Lam.) Dum.-Courset subsp. *integrifolia* (Boiss. & Hohen.) Browicz, 1, Köklü Village, 850-900 m, 01.05.2015, 41°41'06"K, 032°46'52"D, T 3559, DUOF 7253, Ph.

- Aremonia agrimonoides* (L.) DC., 1, Ulukaya road, 320-550 m, 23.04.2014, 41°40'06" K, 032°45'52" D, T 3121, DUOF 7254, H., Eu.Sib. el.
- Cotoneaster nummularius* Fisch. & C.A.Mey., 1, Arit road, above Şahin Village, 600-775 m., 14.06.2015, 41°39'04"K 32°34'35"D, T 4150, Ph.
- Crataegus microphylla* K.Koch, 2, Zoni Alm, 41°43'32"K 32°37'46"D, 740-800 m., 14.06.2015, T 4026, DUOF 7255, Ph., Eu.Sib. el.
- C. pentagyna* Waldst. & Kit. ex Willd., 3, Epçiler Village, 310-440 m., 14.06.2015, 41°36'46"K 32°28'04"D, T 4151, Ph., Eu.Sib. el.
- C. monogyna* Jacq. var. *monogyna*, 1, Arit road, above Şahin Village, 380-775 m., 41°39'04"K 32°34' 35"D, T 3532, DUOF 7256, Ph.
- Cerasus avium* (L.) Moench, 2, Zoni Alm, below *Buxus sempervirens* stand, 41°43'32"K 32°37'46"D, 570-800 m., 14.06.2015, T 4145, Ph.
- Filipendula vulgaris* Moench, 3, Çanakçılar Village, 370-550 m., 19.05.2015, 41°42'41"K 32°31'15" D, T 3429, DUOF 7257, H., Eu.Sib. el.
- Fragaria vesca* L., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 220-490 m., 19.04.2014, T 3046, DUOF 7258, H.
- Geum urbanum* L., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 600-800 m., 19.05.2014, T 3600, DUOF 7259, H., Eu.Sib. el.
- Laurocerasus officinalis* M. Roem., 1, Arit road, above Şahin Village, below *abies* stand, 775 m., 14.06.2015, 41°39'04"K 32°34'35"D, T 4153, Ph.
- Mespilus germanica* L., 1, Kavakseydibaşı Hill, 750-910 m, 14.06.2015, 41°37'14"K 032°36'32"D, T 4154, DUOF 7260, Ph., Eu.Sib. el.
- Malus sylvestris* Miller subsp. *orientalis* (A. Uglitzkich) Browicz var. *orientalis*, 1, Drahna Valley, rocky field, 810 m, 01.05.2015, 41°41'06"K, 032°46'52"D, T 4036, DUOF 7261, Ph.
- Pyrus communis* L., 1, at the entrance of Kemerli Cave, rocky field, 850 m, 23.06.2015, 41°41'06"K 032°46'52" D, T 3534, DUOF 7262, Ph.
- P. elaeagnifolia* Pall. subsp. *elaeagnifolia*, 1, above Ulukaya Waterfall, 350 m, 10.04.2015, 41°40' 06"K, 032°45'52"D, T 4155, Ph.
- Prunus spinosa* L. subsp. *dasyphylla* (Schur) Domin, 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 820 m., 09.05.2015, T 4156, Ph., Eu.Sib. el.
- P. divaricata* Ledeb. var. *divaricata*, 1, above Abdurrahman Village, meadow, 875 m., 09.05.2015 41°43'24"K 32°44'41"D, T 4157, Ph.
- P. domestica* L., 2, Zoni Alm, 41°43'32"K 32°37'46"D, 800 m., 09.05.2015, T 4158, Ph.
- Rubus canescens* DC., 1, Arit road, above Şahin Village, below *abies* stand, 775 m., 41°39'04"K 32°34'35"D, T 4159, Ph., Eu.Sib. el.
- R. hirtus* Waldst. & Kit., 1, Köklü Village, below *abies* forest, 853 m., 19.05.2014, 41°42'25"K 32°50'29"D, T 3327, Ph., Eu.Sib. el.
- Potentilla argentea* L., 3, Çanakçılar Village, meadow field, 250-370 m., 14.06.2015, 41°42'4"K 32°31' 15"D, T 4160, DUOF 7263, H.
- P. reptans* L., 1, Kirazcık Village, meadow, 550-725 m., 19.05.2015, 41°39'06"K 32°40'47"D, T 3663, DUOF 7264, H.
- P. recta* L., 3, Çanakçılar Village, Kestanelik Neighbourhood, meadow field, 370 m., 01.05.2015, 41°42'41"K 32°31'15"D, T 3567, DUOF 7265, H.
- P. astracanica* Jacq., 1, Drahna Valley, Kemerli Cave, 820 m, 19.05.2015, 41°41'06" K 032°46'52" D, T 3678, DUOF 7266, H., Eu.Sib. el.
- P. micrantha* Ramond ex DC., 1, Ulukaya road, near forest, 320 m, 23.04.2014, 41°40'06"K 032°45' 52" D, T 3073, DUOF 7267, H.
- P. calabra* Ten., 1, above Ulukaya Waterfall, 350 m, 19.04.2014, 41°40'06"K 032°45'52"D, T 3013, DUOF 7268, H., Med. el.
- Rosa canina* L., 1, above Ulukaya Waterfall, 350 m, 14.07.2014, 41°40'06"K, 032°45'52"D, T 3457, DUOF 7269, Ph.
- Pyracantha coccinea* M.Roem., 1, Drahna Valley, rocky field, 770 m, 20.06.2013, 41° 40'40"K, 034° 45'41"D, T 2906, DUOF 7270, Ph.
- Sanguisorba officinalis* L., 4, İlyasgeçidi location, below forest, 47°86'40"K 46°27'94"D, 182 m., 21.05.2013, T 2869, DUOF 7271, H.

- S. minor* Scop., 3, Çanakçılar Village, meadow field, 370 m., 21.05.2013, 41°42'41" K 32°31'15"D, T 2852, DUOF 7272, H.
- Sorbus torminalis* (L.) Crantz var. *torminalis*, 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., T 4152, DUOF 7273, Ph.
- S. aucuparia* L., 2, Zoni Alm, 41°43'32"K 32°37'46"D, 800 m., T 4161, DUOF 7274, Ph., Eu.Sib. el.
- S. umbellata* (Desf.) Fritsch var. *cretica* (Lindl.) C.K.Schneid., 1, Kemerli Cave, 850 m, 22.06.2015, 41°41'06"K, 032°46'52"D, T 3558, DUOF 7275, Ph.
- MORACEAE** / *Ficus carica* L. subsp. *carica* (All.) Schinz et Thell., 1, Köklü Village, 453 m., 48°56'91"K 46°15'71"D, T 4162, Ph.
- RHAMNACEAE** / *Paliurus spina-christi* P. Mill., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., T 4163, DUOF 7276, Ph.
- Frangula alnus* Mill., 1, Arit road, above Şahin Village, 575 m., 41°39'04"K 32°34'35"D, T 4098, Ph., Eu.Sib. el.
- ULMACEAE** / *Ulmus glabra* Huds., 1, Arit road, above Şahin Village, 775 m., 41°39'04"K 32°34'35"D, T 4164, DUOF 7277, Ph., Eu.Sib. el.
- U. minor* Mill. subsp. *minor*, 1, Arit road, Şahin Village, 775 m., 41°39'04"K 32°34'35"D, T 4165, DUOF 7278, Ph., Med. el.
- U. minor* Mill. subsp. *canescens* (Melville) Browicz et Zielinski, 1, above Ulukaya Waterfall, 350 m, 10.04.2015, 41° 40'06"K, 032° 45'52"D, T 4050, DUOF 7279, Ph., Med. el.
- URTICACEAE** / *Urtica dioica* L. subsp. *dioica*, 1, Tekmenoğlu Neighbourhood, 270 m, 14.07.2015, 41°32'40"K, 032°33'25"D, T 4166, H., Eu.Sib. el.
- FAGACEAE** / *Castanea sativa* Mill., 1, Arit road, above Şahin Village, 775 m., 41°39'04"K 32°34' 35" D, T 4167, DUOF 7280, Ph., Eu.Sib. el.
- Fagus orientalis* Lipsky, 1, Arit road, above Şahin Village, 775 m., 41°39'04"K 32°34'35"D, T 4168, DUOF 7281, Ph., Eu.Sib. el.
- Quercus petraea* (Mattuschka) Liebl. subsp. *iberica* (Steven ex M.Bieb.) Krassiln., 1, Kavakseydibaşı Hill, 840 m, 14.06.2015, 41°37'14"K, 032°36'32"D, T 4006, DUOF 7282, Ph.
- Q. robur* L. subsp. *robur*, 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., 14.06.2015, T 4169, DUOF 7283, Ph., Eu.Sib. el.
- Q. infectoria* G.Olivier subsp. *infectoria*, 1, above Ulukaya Waterfall, 350 m, 10.04.2015, 41°40'06" K, 032°45'52"D, T 4170, DUOF 7284, Ph.
- Q. pubescens* Willd., 1, Köklü Village road, 350 m., 14.05.2017, 48°56'91"K 46°15'71"D, T 3533, DUOF 7285, Ph.
- JUGLANDACEAE** / *Juglans regia* L., 1, Köklü Village road, side of the stream, 453 m., 48°56'91"K 46°15' 71"D, 14.06.2015, T 4171, Ph.
- BETULACEAE** / *Alnus glutinosa* (L.) Gaertn. subsp. *glutinosa*, 2, Zindanlık Hill, 440 m., 10.04.2015, 41°43'55"K 32°42'08"D, T 4172, DUOF 7286, Ph., Eu.Sib. el.
- Carpinus orientalis* Mill., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., 09.05.2015, T 3622, DUOF 7287, Ph.
- C. betulus* L., 1, Arit road, above Şahin Village, 775 m., 16.06.2015, 41°39'04"K 32°34'35"D, T 3604, DUOF 7288, Ph., Eu.Sib. el.
- Corylus avellana* L. var. *avellana*, 1, Arit road, 775 m., 10.04.2015, 41°39'04"K 32°34'35"D, T 4173, DUOF 7289, Ph., Eu.Sib. el.
- C. colurna* L., 2, Zoni Alm, in the forest, 41°43'32"K 32°37'46"D, 800 m, 10.04.2015, T 4174, Ph., Eu.Sib. el.
- Ostrya carpinifolia* Scop., 2, Zindanlık Hill location, 410 m., 16.06.2015, 41°43'55"K 32°42'08"D, T 3586, DUOF 7290, Ph., Eu.Sib. el.
- DATISCEAE** / *Datisca cannabina* L., 1, Kavakseydibaşı Hill, roadside, 910 m, 14.06.2015, 41°37'14"K 032°36'32"D, T 4175, H.
- CELASTRACEAE** / *Euonymus europeus* L., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., 21.07.2013, T 2881, DUOF 7291, Ph.
- E. latifolius* (L.) Mill. var. *caucensis* Coode et Cullen, 1, Arit road, above Şahin Village, 775 m., 09.05.2015, 41°39'04"K 32°34'35"D, T 2897, DUOF 7292, Ph., E.

**OXALIDACEAE / *Oxalis articulata*** Savigny, 3, Çanakçılar Village, Kestanelik Neighbourhood, 370 m., 19.05.2014, 41°42'41"K 32°31'15"D, T 3252, DUOF 7293, H.

***O. corniculata*** L., 1, Kavakseydibaşı Hill, 310 m., 14.04.2015, 41°37'14"K 032°36'32"D, T 4099, H.

**EUPHORBIACEAE / *Euphorbia amygdaloides*** L. subsp. *amygdaloides*, 1, Kirazcık Village, 725 m., 41°39'06"K 32°40'47"D, 11.05.2014, T 3178, DUOF 7294, H., Eu.Sib. el.

***E. hirsuta*** L., 4, İlyasgeçidi location, 47°86'40"K 46°27'94"D, 160 m., 21.05.2013, T 2876, H.

***E. oblongifolia*** (K.Koch) K.Koch, 2, Zoni Alm, 41°43'32"K 32°37'46"D, 800 m., 16.06.2015, T 3583, DUOF 7295, H., Eu.Sib. el.

***E. stricta*** L., 1, Kirazcık Village, meadow, 725 m., 41°39'06"K 32°40'47"D, 23.04.2014, T 3038, DUOF 7296, Th., Eu.Sib. el.

***E. petrophila*** C.A.Mey. var. *petrophila*, 2, Zoni Alm, 41°43'32"K 32°37'46"D, 800 m., 22.03.2014, T 2998, DUOF 7297, H., Eu.Sib. el.

***E. helioscopia*** L., 1, Kirazcık Village, meadow, 725 m., 11.05.2014, 41°39'06"K 32°40'47"D, T 3221, DUOF 7298, Th.

***E. valerianifolia*** Lam., 3, Çanakçılar Village, 370 m., 23.04.2014, 41°42'41"K 32°31'15"D, T 3132, DUOF 7299, Th., Med. el.

***E. lathyris*** L., 1, Köklü Village yolu, side of the stream, 453 m., 14.05.2017, 48°56'91"K 46°15'71"D, T 4250, DUOF 7300, H.

***Mercurialis annua*** L., 1, Arit road, Şahin Village, 775 m., 41°39'04"K 32°34'35"D, 14.06.2015, T 2804, DUOF 7301, Th.

**SALICACEAE / *Populus tremula*** L. subsp. *tremula*, 1, Arit road, Şahin Village, 775 m., 41°39'04"K 32°34'35"D, 14.06.2015, T 4177, DUOF 7302, Ph., Eu.Sib. el.

***P. alba*** L., 1, Arit road, Şahin Village, 775 m., 41°39'04"K 32°34'35"D, 14.06.2015, T 4178, DUOF 7303, Ph., Eu.Sib. el.

***P. nigra*** L. subsp. *nigra*, 1, Köklü Village road, 453 m., 48°56'91"K 46°15'71"D, T 4179, DUOF 7304, Ph.

***Salix alba*** L. subsp. *alba*, 1, Ulukaya Village, 910 m., 14.06.2015, 41°37'14"K 032°36'32"D, 19.06.2015, T 4033, DUOF 7305, Ph., Eu.Sib. el.

***S. caprea*** L., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., 16.06.2015, T 3597, DUOF 7306, Ph., Eu.Sib. el.

***S. amplexicaulis*** Bory & Chaub., 1, Tekmenoğlu Neighbourhood, at the side of Ulus stream, 270 m., 15.05.2017, 41°32'40"K 032°33'25"D, T 4270, Ph.

**VIOLACEAE / *Viola alba*** Besser subsp. *alba*, 1, above Ulukaya Waterfall, 350 m., 23.04.2014, 41°40'06"K, 032°45'52"D, T 3098, DUOF 7307, H.

***V. canina*** L., 3, Acarlar Village, 175 m., 09.06.2014, 41°45'27"K 32°34'05"D, T 3398, H.

***V. odorata*** L., 1, Kirazcık Village, meadow, 725 m., 12.04.2015, 41°39'06"K 32°40'47"D, T 3524, DUOF 7308, H.

***V. kitaibeliana*** Schult., 1, above Çerçi Village, Arit road, 41°36'09"K 32°34'50"D, 560 m., 12.04.2015, T 3083, DUOF 7309, Th.

***V. arvensis*** Murray, 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., 23.04.2015, T 3071, DUOF 7310, Th.

***V. alba*** Besser subsp. *dehnhardtii* (Ten.) W. Becker, 1, Çerçi Village, 41°36'09"K 32°34'50"D, 560 m., 22.03.2014, T 2981, DUOF 7311, H.

***V. sieheana*** W.Becker, 1, above Ulukaya Waterfall, 350 m., 01.03.2014, 41°40'06"K, 032°45'52"D, T 2962, DUOF 7312, H.

**LINACEAE / *Linum tenuifolium*** L., 1, Kirazcık Village, 725 m., 41°39'06"K 32°40'47"D, 19.05.2014, T 3313, DUOF 7313, Ch.

***L. trigynum*** L., 1, above Ulukaya Waterfall, 350 m., 10.04.2015, 41°40'06"K, 032°45'52"D, T 4075, DUOF 7314, Th., Med. el.

***L. corymbulosum*** Rchb., 3, Sipahiler Cave road, 330 m., 19.05.2016, 41°36'46"K 32°28'04"D, T 3662, DUOF 7315, Th., Med. el.

***L. nodiflorum*** L., 1, Kirazcık Village, 725 m., 41°39'06"K 32°40'47"D, T 4180, Th., Med. el.

**HYPERICACEAE (GUTTIFERAE) / *Hypericum montbretii*** Spach, 1, Kirazcık Village, meadow, 725 m., 11.05.2014, 41°39'06"K 32°40'47"D, T 3232, DUOF 7316, H..



- H. androsaemum* L., 2, Zindanlık Hill location, 530 m., 41°43'55"K 32°42'08"D, 19.07.2014, T 3490, DUOF 7317, Ch., Eu.Sib. el.
- H. atomarium* Boiss., 1, Kirazcık Village, 600-725 m., 21.05.2013, 41°39'06"K 32°40'47"D, T 2853, DUOF 7318, H., Med. el.
- H. bithynicum* Boiss., 1, Ulukaya Waterfall, 250-350 m, 09.06.2014, 41°40'06"K, 032°45'52"D, T 3364, DUOF 7319, H., Med. el.
- H. perforatum* L., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., 11.05.2014, T 3247, DUOF 7320, H.
- PHYLLANTHACEAE** / *Andrachne telephioides* L., 1, above Çerçi Village, roadside, 41°36'09"K 32°34'50"D, 560 m., 14.05.2017, T 4273, DUOF 7321, Th.
- GERANIACEAE** / *Erodium cicutarium* (L.) L Hér. subsp. *cicutarium*, 2, Zindanlık Hill location, 510 m., 22.03.2014, 41°43'55"K 32°42'08"D, T 2964, DUOF 7322, Th.
- Geranium lucidum* L., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., 11.05.2014, T 2786, DUOF 7323, Th.
- G. dissectum* L., 1, Ulukaya Village, 350 m, 11.04.2014, 41°40'06"K, 032°45'52"D, T 2961, Th.
- G. purpureum* Vill., 1, above Ulukaya Waterfall, 350 m, 11.05.2014, 41°40'06"K, 032°45'52"D, T 2839, DUOF 7324, Th.
- G. pyrenaicum* Burm., 1, Kirazcık Village, meadow, 725 m., 19.07.2014, 41°39'016"K 32°40'47" D, T 3127, DUOF 7325, H.
- G. molle* L. subsp. *molle*, 3, Çanakçılar Village, meadow field, 370 m., 22.03.2014, 41°42'41"K 32°31'15" D, T 2980, DUOF 7326, Th.
- G. robertianum* L., 1, Kirazcık Village, 725 m., 22.03.2014, 41°39'06"K 32°40'47" D, T 3006, DUOF 7327, Th.
- G. asphodeloides* Burm. subsp. *asphodeloides*, 2, Çöpbey location, 670 m., 19.04.2014, 41°42'30"K 32°35'13"D, T 2811, DUOF 7328, H., Eu.Sib. el.
- G. columbinum* L., 1, Kirazcık Village, meadow, 725 m., 41°39'06"K 32°40'47"D, 14.06.2015, T 3211, DUOF 7329, Th.
- G. rotundifolium* L., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., 23.04.2015, T 3608, DUOF 7330, Th.
- MYRTACEAE** / *Myrtus communis* L., 4, Yeniköy location, 47°89'97"K 46°29'93"D, 115 m., 23.04.2014, DUOF 7331, T 4182.
- LYTHRACEAE** / *Lythrum salicaria* L., 1, above Çerçi Village, 41°36'09"K 32°34'50"D, 560 m., T 3515, DUOF 7332, H., Eu.Sib. el.
- ONAGRACEAE** / *Circaea lutetiana* L., 1, Arit road, above Şahin Village, 750 m., 14.07.2014, 41°39'04"K 32°34'35"D, T 3465, DUOF 7333, H.
- Epilobium parviflorum* Schreb., 3, Çanakçılar Village, meadow field, 370 m., 19.07.2014, 41°42'41"K 32°31'15"D, T 3493, DUOF 7334, H.
- E. hirsutum* L., 1, Kirazcık Village, meadow, 725 m., 20.06.2013, 41°39'06"K 32°40'47"D, T 2917, DUOF 7335, H.
- E. lanceolatum* Sebast. & Mauri, 2, Zindanlık Hill, 510 m., 41°43'55"K 32°42'08"D, T 4183, H.
- E. montanum* L., 3, Çanakçılar Village, meadow field, 370 m., 14.07.2014, 41°42'4"K 32°31'15"D, T 3443, DUOF 7336, H., Eu.Sib. el.
- E. tetragonum* L. subsp. *lamyi* (F.W.Schultz) Nyman, 1, above Köklü Village, 830 m., 14.07.2014, 41°42'25"K 32°50'29"D, T 3452, DUOF 7337, H., Eu.Sib. el.
- STAPHYLEACEAE** / *Staphylea pinnata* L., 1, Kirazcık Village, 725 m., T 19.05.2014 41°39'06"K 32°40'47"D, T 3257, DUOF 7338, Ph.
- ANACARDIACEAE** / *Cotinus coggygia* Scop., 3, Çanakçılar Village, meadow field, 370 m., 41°42'41" K 32°31'15"D, T 4184, DUOF 7339, Ph., Med. el.
- Pistacia palaestina* Boiss., 2, Çöpbey Yapıkayası Hill location, rocky field, 670 m., 41°42'3"K 32°35'13"D, T 4185, Ph., Med. el.
- P. terebinthus* L. subsp. *terebinthus*, 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., T 4186, DUOF 7340, Ph., Med. el.
- Rhus coriaria* L., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., 20.06.2013, T 2901, DUOF 7341, Ph.

- SAPINDACEAE / *Acer campestre* L. subsp. *campestre***, 1, Arit road Şahin Village, *abies* forest, 775 m., 23.06.2015, 41°39'04"K 32°34'35"D, T 3433, DUOF 7342, Ph., Eu.Sib. el.
- A. platanoides* L.**, 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., T 4024, DUOF 7343, Ph., Eu.Sib. el.
- A. heldreichii* Orph. ex Boiss. subsp. *trautvetteri* (Medw.) A.E.Murray**, 1, Arit road, Şahin Village, 775 m., 19.05.2015, 41°39'04"K 32°34'35"D, T 3676, DUOF 7344, Ph., Eu.Sib. el.
- A. hyrcanum* Fisch. et. Mey. subsp. *hyrcanum***, 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., T 4187, DUOF 7345, Ph., Eu.Sib. el.
- RUTACEAE / *Dictamnus albus* L.**, 1, Arit road, above Şahin Village, 775 m., 19.05.2014, 41°39'04" K 32°34'35"D, T 3298, DUOF 7346, H.
- CYTINACEAE / *Cytinus ruber* (Fourr.) Fritsch**, 2, Çöpbey, Yapıkayası Hill location, rocky field, 450-670 m., 19.05.2015, 41°42'3"K 32°35'13"D, T 3660, DUOF 7347, G., Med. el.
- MALVACEAE / *Althaea hirsuta* L.**, 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., 14.06.2014, T 4052, DUOF 7348, Th.
- Alcea pallida* (Willd.) Waldst. & Kit.**, 1, Kavakseydibaşı Hill, 910 m, 22.06.2015, 41°37'14" K, 032°36'32"D, T 3549, DUOF 7349, H.
- Malva sylvestris* L.**, 2, Zindanlık Hill location, roadside, 510 m., 23.04.2015, 41°43'55"K 32°42'08"D, T 3619, DUOF 7350, H.
- M. alcea* L.**, 1, Kirazcık Village, meadow, 725 m., 14.07.2014, 41°39'06"K 32°40'47"D, T 3468, DUOF 7351, H.
- Tilia platyphyllos* Scop.**, 2, Örenkaya Hill, 670 m, 14.06.2015, 41°42'51"K, 033°39'25"D, T 4188, DUOF 7352, Ph., Eu.Sib. el.
- T. tomentosa* Moench**, 3, Epeçiler Village, Sipahiler Cave, 310 m., 41°36'46"K 32°28'04"D, 19.06.2015 T 4013, DUOF 7353, Ph., Eu.Sib. el.
- THYMELAEACEAE / *Daphne pontica* L.**, 1, Arit road, Şahin Village, 775 m., 41°39'04"K 32°34'35"D, T 4189, Ph., Eu.Sib. el.
- CISTACEAE / *Cistus salviifolius* L.**, 2, Zindanlık Hill location, 510 m., 19.05.2014, 41°43'55"K 32°42'08"D, T 3264, DUOF 7354, Ph.
- C. creticus* L.**, 2, Çöpbey, Yapıkayası Hill location, 670 m., 19.05.2014, 41°42'3"K 32°35'13"D, T 3269, DUOF 7355, Ph., Med. el.
- Helianthemum nummularium* (L.) Mill. subsp. *nummularium***, 2, Zindanlık Hill location, roadside, 510 m., 11.05.2014, 41°43'55"K 32°42'08"D, T 3188, DUOF 7356, Ch.
- RESEDACEAE / *Reseda lutea* L. var. *lutea***, 2, Zindanlık Hill location, 510 m., 41°43'55"K 32°42'08"D, 14.06.2015, T 4190, Th.
- BRASSICACEAE (CRUCIFERAE) / *Alliaria petiolata* (M.Bieb.) Cavara & Grande**, 2, Zindanlık Hill location, 510 m., 19.04.2014, 41°43'55"K 32°42'08"D, T 3054, DUOF 7357, Th.
- Alyssum repens* Baumg. subsp. *trichostachyum* (Rupr.) Hayek**, 2, Çöpbey Yapıkayası Hill location, 670 m., 23.04.2014, 41°42'3"K 32°35'13"D, T 3065, DUOF 7358, H.
- Arabidopsis thaliana* (L.) Heynh.**, 1, Draha Valley, meadow field, 420 m, 14.03.2015, 41°40'40"K, 034°45'41"D, T 3514, DUOF 7359, Th.
- Aubrieta canescens* (Boiss.) Bornm. subsp. *macrostyla* Cullen et Hub.-Mor.**, 1, Kemerli Cave, rocky field, 850 m, 22.06.2015, 41°41'06" K, 032°46'52" D, T 3568, DUOF 7360, H.
- Arabis caucasica* Willd.**, 1, Kavakseydibaşı Hill, 910 m, 01.03.2014, 41°37'14" K, 032°36'32"D, T 2953, DUOF 7361, H.
- A. sagittata* (Bertol.) DC.**, 3, Çanakçılar Village, Kestanelik Neighbourhood, meadow field, 370 m., 19.05.2014, 41°42'41"K 32°31'15"D, T 3283, DUOF 7362, H.
- Barbarea plantaginea* DC.**, 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 650-800 m., 19.04.2014, T 3024, DUOF 7363, H.
- Cardamine bulbifera* (L.) Crantz**, 1, Arit road, Şahin Village, 550-775 m., 23.04.2014, 41°39'04"K 32°34'35"D, T 3040, DUOF 7364, G., Eu.Sib. el.
- C. hirsuta* L.**, 1, Kirazcık Village, 640-725 m., 41°39'06"K 32°40'47"D, 14.06.2015, T 4191, Th.
- C. quinquefolia* (M.Bieb.) Schmalh.**, 1, Kavakseydibaşı Hill, 850-910 m, 01.03.2014, 41°37'14" K, 032°36'32"D, T 4040, H., Eu.Sib. el.
- C. impatiens* L. subsp. *pectinata* (Pall. ex DC.) Stoj. & Stef.**, 1, Draha Valley, 650-770 m, 01.05.2014, 41°40'40" K, 034°45'41" D, T 3147, DUOF 7365, Th., Eu.Sib. el..

- Calepina irregularis* (Asso) Thell., 1, above Çerçi Village, meadow, 41°36'09"K 32°34'50"D, 400-560 m., 23.04.2014, T 3101, DUOF 7366, Th.
- Capsella bursa-pastoris* (L.) Medik., 1, Kirazcık Village, meadow, 400-725 m., 41°39'06"K 32°40'47"D, 14.06.2015, T 4192, Th.
- Draba muralis* L., 1, Kirazcık Village, meadow, 600-725 m., 23.04.2014, 41°39'06"K 32°40'47"D, T 3072, DUOF 7367, Th.
- Hesperis bicuspidata* (Willd.) Poir., 2, Çöpbey, Yapıkayası Hill location, 500-670 m., 23.04.2014, 41°42'3"K 32°35'13"D, T 3108, DUOF 7368, H., E.
- Erysimum leucanthemum* (Stephan ex Willd.) B.Fedtsch., 3, Çanakçılar Village, Kestanelik Neighbourhood, 250-370 m., 14.07.2014, 41°42'41"K 32°31'15"D, T 3463, DUOF 7369, H.
- Lepidium draba* L., 4, Yeniköy location, rocky field, 47°89'97"K 46°29'93"D, 115 m., 23.04.2014, T 3047, DUOF 7370, H.
- L. campestre* (L.) R.Br., 3, Çanakçılar Village, Kestanelik Neighbourhood, meadow field, 250-370 m., 23.04.2014, 41°42'41"K 32°31'15"D, T 3033, DUOF 7371, Th.
- L. virginicum* L., 1, above Çerçi Village, 41°36'09"K 32°34'50"D, 440-560 m., 14.05.2017, T 4262, DUOF 7372, H.
- Nasturtium officinale* R. Br., 4, İlyasgeçidi location, meadow, 47°86'40"K 46°27'94"D, 182 m., 19.05.2015, T 3672, DUOF 7373, G.
- Isatis buschiana* Schischk., 1, Ulukaya Waterfall, 350 m, 21.05.2013, 41°40'06" K, 032°45'52"D, T 2861, DUOF 7374, H., Ir-Tur. el.
- Thlaspi perfoliatum* L., 1, Kavakseydibaşı Hill, 910 m, 22.03.2014, 41°37'14" K, 032°36'32"D, T 2991, DUOF 7375, Th.
- Sinapis arvensis* L., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., 01.03.2014, T 2945, DUOF 7376, Th.
- Sisymbrium officinale* (L.) Scop., 1, Çerçi Village, 41°36'09"K 32°34'50"D, 560 m., 14.05.2017, T 4264, Th.
- Turritis laxa* (Sm.) Hayek, 1, Kavakseydibaşı Hill, 410 m, 01.03.2014, 41°37'14"K, 032°36'32"D, T 2952, T.
- LORANTHACEAE** / *Viscum album* L. subsp. *album*, 1, Arit road, above Şahin Village, on *abies* 650-775 m., 41°39'04"K 32°34'35"D, T 4193, DUOF 7377, Ch.
- SANTALACEAE** / *Osyris alba* L., 1, above Çerçi Village, 41°36'09"K 32°34'50"D, 560 m., 19.07.2014, T 4194, Ph., Med. el.
- Thesium arvense* Horv., 4, İlyasgeçidi location, meadow, 47°86'40"K 46°27'94"D, 182 m., T 3664, DUOF 7378, H., Eu.Sib. el.
- POLYGONACEAE** / *Rumex acetosella* L., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., T 4195, H.
- R. tuberosus* L. subsp. *tuberosus*, 3, Çanakçılar Village, Kestanelik Neighbourhood, 370 m., 23.04.2014, 41°42'41"K 32°31'15"D, T 3105, DUOF 7379, H.
- R. crispus* L., 1, Kirazcık Village, 725 m., 14.05.2017, 41°39'06"K 32°40'47"D, T 4251, H.
- TAMARICACEAE** / *Tamarix parviflora* DC., 1, Düzköy, 200-270 m, 15.05.2017, 41°32'40"K, 032° 33'25"D, T 4271, Ph.
- CARYOPHYLLACEAE** / *Cerastium brachypetalum* Pers. subsp. *roeseri* (Boiss. & Heldr.) Nyman, 1, Kirazcık Village, 725 m., 19.04.2014, 41°39'06"K 32°40'47"D, T 3028, DUOF 7380, Th., Med. el.
- Dianthus calocephalus* Boiss., 2, Çöpbey Yapıkayası Hill location, rocky field, 670 m., 21.05.2013, 41°42'3"K 32°35'13"D, T 2850, DUOF 7381, H.
- D. giganteus* d'Urv., 1, Ulukaya Waterfall, 350 m, 11.05.2014, 41°40'06" K, 032°45'52" D, T 3231, DUOF 7382, H., Eu.Sib. el.
- D. corymbosus* Sm. 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., 14.07.2014, T 3437, DUOF 7383, Th.
- Minuartia mesogitana* (Boiss.) Hand.-Mazz. subsp. *flaccida* Mcneilli, 1, Arit road, Şahin Village, 700-775 m., 11.05.2014, 41°39'04"K 32°34'35"D, T 3168, DUOF 7384, Th.
- Moenchia mantica* (L.) Bartl. subsp. *mantica*, 2, Zindanlık Hill location, 510 m., 23.04.2014, 41°43'55"K 32°42'08"D, T 3082, DUOF 7385, Th.

- Moehringia trinervia* (L.) Clairv., 1, Kavakseydibaşı Hill, 910 m, 23.04.2014, 41°37'14" K, 032°36'32"D, T 3041, DUOF 7386, Th.
- Petrorhagia dubia* (Raf.) G.López & Romo, 3, Çanakçılar Village, Kestanelik Neighbourhood, 370 m., 14.07.2014, 41°42'41"K 32°31'15"D, T 3668, DUOF 7387, Th.
- Sagina apetala* Ard., 2, Çöpbey, Yapıkayası Hill location, rocky field, 670 m., 14.06.2015, 41°42'34"K 32°35'13"D, T 4019, DUOF 7388, Th.
- Saponaria glutinosa* M.Bieb., 2, Çöpbey Yapıkayası Hill location, rocky field, 670 m., 09.06.2014, 41°42'3"K 32°35'13"D, T 3355, DUOF 7389, H.
- Silene italica* (L.) Pers., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., 11.05.2014, T 3276, DUOF 7390, H.
- S. latifolia* Poir. subsp. *alba* (Mill.) Greuter & Burdet, 3, Çanakçılar Village, Kestanelik Neighbourhood, 370 m., 23.06.2015, 41°42'41"K 32°31'15"D, T 3542, DUOF 7391, H.
- S. dichotoma* Ehrh. subsp. *dichotoma*, 1, Arit road, 600-775 m., 14.06.2014, 41°39'04"K 32°34'35"D, T 2875, DUOF 7392, Th.
- S. dichotoma* Ehrh. subsp. *sibthorpii* (Reichb.) Rech., 1, Kirazcık Village, meadow, 725 m., 09.06.2014, 41°39'06"K 32°40'47"D, T 3357, DUOF 7393, Th.
- S. odontopetala* Fenzl, 1, Drahn Valley, Kemerli Cave, rocky field, 850 m, 22.06.2015, 41°41'06" K, 032°46'52" D, T 3548, DUOF 7394, H.
- S. coronaria* (Desr.) Clairv. ex Rchb., 2, Çöpbey Yapıkayası Hill location, 670 m., 23.06.2015, 41°42'3"K 32°35'13"D, T 3536, DUOF 7395, H.
- S. gallica* L., 1, Kirazcık Village, meadow, 725 m., 19.05.2014, 41°39'06"K 32°40'47"D, T 3308, DUOF 7396, Th.
- S. vulgaris* (Moench) Garcke subsp. *vulgaris*, 2, Zindanlık Hill, 510 m., 19.05.2014, 41°43'55" K 32°42'08" D, T 3255, DUOF 7397, H.
- S. otites* (L.) Wibel, 1, above Köklü Village, 853 m., 41°42'25"K 32°50'29"D, T 4197, H.
- Stellaria holostea* L., 2, Zoni Alm, 41°43'32"K 32°37'46"D, 800 m., 19.04.2014, T 3048, DUOF 7398, H., Eu.Sib. el.
- AMARANTHACEAE (CHENOPODIACEAE) / *Chenopodium botrys* L., 2, Zoni Alm, 41°43'32" K 32°37'46" D, 800 m., T 4198, Th.**
- CORNACEAE / *Cornus mas* L., 2, Arit Basin, Zindanlık Hill location, 510 m., 41°43'55"K 32°42'08" D, T 4199, DUOF 7399, Ph., Eu. Sib. el.**
- C. sanguinea* L. subsp. *australis* (C.A.Mey.) Jáv., 1, Arit road, above Şahin Village, 775 m., 11.05.2014, 41°39'04"K 32°34'35"D, T 3213, DUOF 7400, Ph., Eu.Sib. el.
- C. sanguinea* L. subsp. *sanguinea*, 2, Zoni Alm, roadside, 41°43'32" K 32°37'46" D, 800 m., 09.05. 2015, T 3623, DUOF 7401, Ph.
- PRIMULACEAE / *Anagallis arvensis* L. var. *arvensis*, 1, Kirazcık Village, meadow, 725 m., 19.05.2014, 41°39'06"K 32°40'47"D, T 3307, DUOF 7402, Th.**
- A. arvensis* L. var. *caerulea* (L.) Gouan, 3, Çanakçılar Village, 370 m., 41°42'41"K 32°31'15"D, 14.06.2015, T 2835, DUOF 7403, Th.
- Cyclamen coum* Mill. var. *coum*, 2, Zoni Alm, roadside, 41°43'32" K 32°37'46" D, 800 m., 23.04.2014, T 3086, DUOF 7404, G.
- C. coum* Mill. subsp. *caucasicum* (K.Koch) O.Schwarz, 2, Çöpbey, Yapıkayası Hill location, 670 m., 22.02.2014, 41°42'3"K 32°35'13"D, T 2939, DUOF 7405, G.
- Lysimachia dubia* Aiton, 2, Zindanlık Hill location, 510 m., 09.06.2014, 41°43'55"K 32°42'08"D, T 3376, DUOF 7406, Th., Med. el.
- L. vulgaris* L., 1, Kirazcık Village, meadow, 725 m., 14.07.2014, 41°39'06"K 32°40'47"D, T 3441, DUOF 7407, Hy.
- L. verticillaris* Spreng., 1, Köklü Village, roadside, 853 m., 19.05.2014, 41°42'25"K 32°50'29"D, T 2898, DUOF 7408, Hy., Eu.Sib. el.
- Primula vulgaris* Huds. subsp. *vulgaris*, 2, Çöpbey, Yapıkayası Hill location, 670 m., 25.02.2014, 41°42'3"K 32°35'13"D, T 2933, DUOF 7409, H., Eu.Sib. el.
- P. vulgaris* Huds. subsp. *sibthorpii* (Hoffmanns.) W.W.Sm. & Forrest, 1, Kavakseydibaşı Hill, 910 m, 14.06.2015, 41°37'14"K, 032°36'32"D, T 4201, H., Eu.Sib. el.
- ERICACEAE / *Arbutus andrachne* L., 2, Zoni Alm, roadside, rocky field, 41°43'32"K 32°37'46"D, 800 m., T 4202, DUOF 7410, Ph.**

- A. unedo* L., 2, Zoni Alm, roadside, rocky field, 41°43'32"K 32°37'46"D, 800 m., 14.06.2015, T 4203, DUOF 7411, Ph.
- Erica arborea* L., 2, Arıt Havzası Zindanlık Hill location, road side, 510 m., 41°43'55"K 32°42'08"D, 14.06.2015, T 4204, Ph.
- Monotropa hypopitys* L., 1, Arıt road, above Şahin Village, 775 m., 23.06.2015, 41°39' 04"K 32°34' 35"D, T 3531, DUOF 7412, H.
- Orthilia secunda* (L.) House, 2, Zindanlık Tepe, *Abies* forest, 510 m., 19.05.2014, 41°43'55"K 32°42'08"D, T 3258, H.
- Pyrola chlorantha* Sw., 2, Çöpbey Yapıkayası Hill location, 740 m., 41°42'3"K 32°35'13"D, 19.06.2015, T 4014, H.
- Rhododendron ponticum* L. subsp. *ponticum*, 2, Zindanlık Hill location, 510 m., 41°43'55"K 32°42' 08"D, T 4205, Ph., Eu.Sib. el.
- Vaccinium arctostaphylos* L., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., 16.06.2015, T 4043, DUOF 7413, Ph., Eu.Sib. el.
- SOLANACEAE / *Atropa belladonna*** L., 2, Çöpbey, Yapıkayası Hill location, 740 m., 41°42'34"K 32°35'13"D, 19.06.2015, T 4016, DUOF 7414, H., Eu.Sib. el.
- Hyoscyamus niger* L., 1, above Abdurrahman Village, 600 m., 41°38'51"K 32°39'26"D, 21.06.2015, T 4051, H.
- Solanum dulcamara* L., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., 19.07.2014, T 3471, DUOF 7415, H., Eu.Sib. el.
- RUBIACEAE / *Asperula taurina*** L. subsp. *taurina*, 1, Kirazcık Village, 725 m., 19.04.2014, 41°39'06"K 32°40'47"D, T 3017, DUOF 7416, H.
- A. involucrata* Wahlenb., 3, Çanakçılar Village, Kestanelik Neighbourhood, 370 m., 14.06.2015, 41°42'41"K 32°31'15"D, T 4206, H., Eu.Sib. el.
- A. pestalozzae* Boiss., 1, above Abdurrahman Village, 710 m., 41°38'51"K 32°39'26"D, T 3574, DUOF 7417, H., Eu.Sib. el., E.
- Cruciata taurica* (Pall. ex Willd.) Ehrend., 2, Zindanlık Hill location, 510 m., 41°43'55"K 32°42'08" D, T 4207, H., Ir-Tur. el.
- C. laevipes* Opiz, 4, İlyasgeçidi location, meadow field, 47°86'40"K 46°27'94"D, 182 m., 21.05.2013, T 2870, H., Eu.Sib. el.
- Galium lovcense* Urum., 1, Köklü Village, 853 m., 19.05.2014, 41°42'25"K 32°50'29"D, T 3323, DUOF 7418, H., Med. el.
- G. verum* L. subsp. *glabrescens* Ehrend., 1, Drahna Valley, 370 m, 01.05.2014, 41°40'40"K, 034°45'41 "D, T 3648, DUOF 7419, H., Ir-Tur. el.
- G. palustre* L., 2, Zindanlık Hill location 450 m., 01.05.2013, 41°43'55"K 32°42'08"D, T 2817, DUOF 7420, H., Eu.Sib. el.
- G. odoratum* (L.) Scop., 1, Kirazcık Village, 725 m., 23.04.2014, 41°39'06"K 32°40'47"D, T 3100, DUOF 7421, H., Eu.Sib. el.
- G. paschale* Forssk., 1, Kavakseydibaşı Hill, 910 m, 14.06.2015, 41°37'14"K, 032°36'32"D, T 4208, DUOF 7422, H., Med. el.
- Rubia peregrina* L., 4, rocky field, road side, 310 m., 46°79'80"K 46°25'33"D, T 4058, DUOF 7423, H., Med. el.
- Sherardia arvensis* L., 3, Çanakçılar Village, Kestanelik Neighbourhood, meadow field, 370 m., 41°42'41"K 32°31'15"D, T 4209, Th., Med. el.
- GENTIANACEAE / *Blackstonia perfoliata*** (L.) Huds., 4, Yeniköy location, 47°89'97"K 46° 29'93"D, 115 m., T 4210, Th.
- Centaurium erythraea* Rafn. subsp. *erythraea*, 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., 09.06.2014, T 3369, DUOF 7424, H., Eu.Sib. el.
- C. maritimum* (L.) Fritsch, 1, above Abdurrahman Village, 710 m., 41°38'51"K 32°39'26"D, T 4053, DUOF 7425, H., Med. el.
- Gentiana asclepiadea* L., 3, Çanakçılar Village, Kestanelik Neighbourhood, 370 m., 21.05.2013, 41°42'41" K 32°31'15"D, T 2866, DUOF 7426, H., Eu.Sib. el.
- G. cruciata* L., 1, Köklü Village, meadow, 853 m., 14.07.2014, 41°42'25"K 32°50'29"D, T 3431, DUOF 7427, H., Eu.Sib. el.

- APOCYNACEAE** / *Periploca graeca* L., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., 14.06.2015, T 4211, Ph., Med. el.
- Vinca herbacea* Waldst. & Kit., 1, Kavakseydibaşı Hill, 910 m, 24.04.2014, 41°37'14"K, 032°36'32"D, T 3107, DUOF 7428, H.
- Vincetoxicum canescens* (Willd.) Decne., 1, Ulukaya Waterfall, 424 m., 41°40'19"K 32°45'48"D, 14.06.2015, T 4212, H.
- V. scandens* Sommier & Levier, 2, Çöpbey, Yapıkayası Hill location, rocky field, 670 m., 19.05.2014, 41°42'3"K 32°35'13"D, T 3282, DUOF 7429, H.
- VERBENACEAE** / *Verbena officinalis* L., 1, above Çerçi Village, meadow, 41°36'09"K 32°34'50" D, 560 m., 09.06.2014, T 3379, DUOF 7430, H.
- BORAGINACEAE** / *Anchusa leptophylla* Roem. & Schult. subsp. *leptophylla*, 1, Ulukaya Waterfall, 350 m, 19.05.2014, 41° 40' 06" K, 032° 45' 52" D, T 3669, DUOF 7431, H.
- A. azurea* Mill. var. *azurea*, 1, Kavakseydibaşı Hill, 910 m, 01.05.2014, 41°37' 14 "K, 032° 36' 32"D, T 3060, DUOF 7432, H.
- Buglossoides arvensis*, 1, Ulukaya Village, road side, 310 m, 41°40'06"K 032°45'52"D, 14.06.2015, T 4214, T.
- Cerintho minor* L. subsp. *auriculata* (Ten.) Domac., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., 01.05.2013, T 3057, DUOF 7433, H.
- Cynoglossum montanum* L., 2, Zoni Alm, 41°43'32"K 32°37'46"D, 800 m., 09.05.2015, T 3014, DUOF 7434, H., Eu.Sib. el.
- C. creticum* Mill., 1, Kirazcık Village, meadow, 725 m., 21.05.2013, 41°39'06"K 32°40'47"D, T 2824, DUOF 7435, H.
- Crepis foetida* L. subsp. *rheoadifolia* (M.Bieb.) Čelak., 1, Dereli Village, *Pinus nigra* forest, 640 m, 41°40'39" K, 32°48'12"D, 14.06.2015, T 4213, Th.
- Echium italicum* L., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., 14.06.2014, T 3409, DUOF 7436, H., Med. el.
- E. vulgare* L. subsp. *vulgare*, 3, Çanakçılar Village, Kestanelik Neighbourhood, meadow field, 350 m., 19.05.2014, 41°42'41"K 32°31'15"D, T 3284, H., Eu.Sib. el.
- Lithospermum officinale* L., 2, Arit Basin, Zindanlık Hill location, 510 m., 19.05.2014, 41°43'55"K 32°42'08"D, T 3336, DUOF 7437, H., Eu. Sib. el.
- L. purpureocaeruleum* L., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., 01.05.2014, T 3134, DUOF 7438, H., Eu.Sib. el.
- Lappula marginata* (M.Bieb.) Gürke, 1, Aşağıköy, Yukarıalçı Neighbourhood, roadside, 540 m., 20.06. 2013, 41°37'03"K 32°36'46"D, T 2929, DUOF 7439, H.
- Myosotis arvensis* (L.) Hill, 1, Kirazcık Village, meadow, 725 m., 19.05.2014, 41°39'06"K 32°40'47" D, T 3035, DUOF 7440, Th., Eu.Sib. el.
- M. alpestris* F.W.Schmidt subsp. *alpestris*, 1, Kavakseydibaşı Hill, 910 m, 23.04.2014, 41°37'14"K, 032°36'32"D, T 3084, DUOF 7441, H.
- M. lithospermifolia* (Willd.) Hornem., 1, Köklü Village, meadow field, 740 m., 01.05.2014, 41°42'25"K 32°50'29"D, T 3136, DUOF 7442, H.
- M. sicula* Guss., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., 19.04.2014, T 3031, DUOF 7443, Th.
- M. ramosissima* Rochel subsp. *ramosissima*, 1, Kirazcık Village, meadow, 725 m., 19.05.2014, 41°39'06"K 32°40'47"D, T 3302, DUOF 7444, Th.
- M. sylvatica* Ehrh. ex Hoffm. subsp. *rivularis* Vesterg., 2, Çöpbey, Yapıkayası Hill location, 670 m., 41°42'3"K 32°35'13"D, T 2990, DUOF 7445, H., Eu.Sib. el.
- Onosma armena* DC., 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., 19.05.2015, T 3365, DUOF 7446, H., E.
- O. intertextum* Hub.-Mor., 1, Drağna Valley, 770 m, 21.05.2013, 41°40'40"K, 034°45'41"D, T 2845, DUOF 7447, H., Ir-Tur. el., E.
- Trachystemon orientalis* (L.) D.Don, 1, Arit road, above Şahin Village, 775 m., 16.06.2015, 41°39'04"K 32°34'35"D, T 4216, DUOF 7448, H., Eu.Sib. el.
- CONVOLVULACEAE** / *Calystegia silvatica* (Kit.) Grisb., 1, above Köklü Village, rocky field, 853 m., 11.05.2014, 41°42'25"K 32°50'29"D, T 3242, DUOF 7449, H.

- Convolvulus arvensis* L., 1, above Abdurrahman Village, Türbe Hill location, 710 m., 11.05.2014, 41° 38'51"K 32°39'26"D, T 3200, H.
- C. cantabrica* L., 1, Kirazcık Village, meadow, 725 m., 11.05.2014, 41°39'06"K 32°40'47"D, T 3191, DUOF 7450, H.
- Cuscuta epithymum* (L.) L. var. *epithymum*, 1, above Köklü Village, rocky field, 853 m., 23.06.2015, 41°42'25"K 32°50'29"D, T 3537, DUOF 7451, Th.
- OLEACEAE / *Fraxinus angustifolia*** Vahl. subsp. *angustifolia*, 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., 19.05.2015, T 3679, DUOF 7452, Ph.
- F. excelsior* L., 1, Arit road, Kavakseydibaşı Hill Location, 910 m, 14.06.2015, 41°37'14"K, 032°36' 32"D, 14.06.2015, T 4028, DUOF 7453, Ph., Eu.Sib. el.
- F. ornus* L., 1, Ulukaya Waterfall, road side, 310 m, 41°40'06"K 032°45'52"D, 14.06.2015, T 4217, Ph., Eu.Sib. el.
- Jasminum fruticans* L., 1, Kavakseydibaşı Hill, meadow field, 910 m, 14.06.2015, 41°37'14"K 032°36'32"D, T 3651, DUOF 7454, Ph., Med. el.
- Ligustrum vulgare* L., 1, Kavakseydibaşı Hill, meadow field, 910 m, 41°37'14"K, 032°36'32"D, T 4218, Ph., Eu.Sib. el.
- Phillyrea latifolia* L., 1, Kavakseydibaşı Hill, meadow field, 910 m, 14.06.2015, 41°37'14"K, 032°36'32"D, T 4219, DUOF 7455, Ph., Med. el.
- PLANTAGINACEAE / *Antirrhinum majus*** L. subsp. *tortuosum* (Bosc ex Vent.) Rouy, 3, Çanakçı Village, 370 m., 41°42'41"K 32°31'15"D, T 3280, DUOF 7456, H., Med. el.
- Kickxia elatine* subsp. *crinita* (Mabille) Greuter, 1, Kirazcık Village, meadow, 425 m., 11.05.2014, 41°39'06"K 32°40'47"D, T 3202, T.
- Globularia trichosanta* Fisch. & C.A.Mey. subsp. *trichosanta*, 1, above Çerçi Village, 41°36'09"K 32°34'50"D, 560 m., 11.05.2014, T 2780, DUOF 7457, H., Ir-Tur. el.
- Linaria genistifolia* (L.) Mill. subsp. *genistifolia*, 3, Çanakçılar Village, 370 m., 21.05.2013, 41°42'41"K 32°31'15"D, T 2860, DUOF 7458, H., Eu.Sib. el.
- L. pelisseriana* (L.) Mill., 3, Çanakçılar Village, Kestanelik Neighbourhood, 370 m., 19.05.2014, 41°42'41"K 32°31'15"D, T 3339, DUOF 7459, Th., Med. el.
- Plantago lanceolata* L., 1, Tekmenoğlu Neighbourhood, 270 m, 14.07.2015, 41°32'40"K, 032°33'25" D, T 4221, H.
- P. major* L., 1, Aşağıköy, Aşağıdere Neighbourhood, 265 m., 19.05.2015, 41°37'28"K 32°38'51"D, T 4222, H.
- Veronica serpyllifolia* L., 1, Ören Neighbourhood, meadow field, 815 m., 01.05.2013, 41°43'27"K 32°42'39"D, T 2808, H.
- V. pectinata* L. var. *pectinata*, 1, Kavakseydibaşı Hill, 910 m, 01.05.2014, 41°37'14"K, 032°36'32"D, T 2890, DUOF 7460, H.
- V. chamaedrys* L., 1, Ören Neighbourhood, meadow field, 815 m., 23.04.2014, 41°43'27"K 32°42'39"D, T 2833, DUOF 7461, G., Eu.Sib. el.
- V. beccabunga* L., 1, Aşağıköy, Aşağıdere Neighbourhood, 265 m., 19.05.2015, 41°37'28"K 32°38'51"D, T 3671, DUOF 7462, G.
- V. multifida* L., 1, above Çerçi Village, Arit road, 41°36'09"K 32°34'50"D, 560 m., 14.05.2015, T 2773, DUOF 7463, H.
- V. filiformis* Sm., 1, above Çerçi Village, 41°36'09"K 32°34'50"D, 560 m., 14.05.2017, T 4266, H., Eu.Sib. el.
- SCROPHULARIACEAE / *Digitalis ferruginea*** L., 1, Tekmenoğlu Neighbourhood, 270 m, 20.06.2013, 41° 32' 40" K, 032°33'25"D, T 2920, DUOF 7464, H., Eu.Sib. el.
- D. lamarckii* Ivan, 1, Kavakseydibaşı, 910 m, 41°37'14"K, 032°36'32"D, T 4223, H., Ir-Tur. el., E.
- Euphrasia pectinata* Ten., 2, Zindanlık Hill location, meadow field, 470 m, 14.06.2015, 41°37'51"K, 032°33'25"D, T 4224, Th., Eu.Sib. el.
- Scrophularia scopoli* [Hoppe ex] Pers. var. *scopoli*, 1, Tekmenoğlu Neighbourhood, 270 m, 12.05.2014, 41° 32' 40" K, 032° 33' 25" D, T 3096, DUOF 7465, H.
- Parentucellia latifolia* (L.) Caruel. subsp. *latifolia*, 3, Saraydüzü Village, Gençali Neighbourhood, 520 m., 13.04.2013, 41°39'55"K 32°29'47" D, T 2774, Th., Med. el.
- P. viscosa* (L.) Caruel, 1, Draha Valley, meadow field, 370 m, 14.06.2014, 41°40'40" K, 034°45'41" D, T 3410, DUOF 7466, Th., Med. el.



- Verbascum blattaria* L., 3, Çanakçılar Village, above Deremescit Neighbourhood, 370 m., 19.07.2014, 41°42'41"K 32°31'15"D, T 3358, DUOF 7467, H.
- V. georgicum* Benth., 1, Köklü Village, meadow field, 853 m., 14.07.2014, 41°42'25"K 32°50'29" D, T 3470, H., Eu.Sib. el.
- LAMIACEAE / *Ajuga chamaepitys* (L.) Schreber subsp. *chia* (Schreber) Arcangeli. var. *chia*, 1, Drahna Valley, Kemerli Cave, rocky field, 850 m, 22.04.2014, 41°41'06"K 032°46'52"D, T 2779, DUOF 7468, H.**
- A. reptans* L., 1, Ulukaya Waterfall, roadside, 350 m, 19.04.2014, 41°40'06"K, 032°45'52"D, T 2777, DUOF 7469, H., Eu.Sib. el.
- A. orientalis* L., 1, Ulukaya Waterfall, roadside, 350 m, 23.04.2014, 41°40'06"K, 032°45'52"D, T 2753, DUOF 7470, H.
- Clinopodium vulgare* L. subsp. *vulgare*, 1, Drahna Valley, Kemerli Cave, rocky field, 850 m, 09.06.2014, 41°41'06"K, 032°46'52"D, T 3362, DUOF 7471, H.
- C. grandiflorum* (L.) Kuntze, 1, Drahna Valley, 770 m, 14.07.2014, 41°40'40"K, 034°45'41"D, T 3436, DUOF 7472, H., Eu.Sib. el.
- C. acinos* (L.) Kuntze, 3, Aliobası Village, Yukarışal Neighbourhood, rocky field, 410 m., 20.06.2013, 41°43'30"K 32°33'28"D, T 2914, DUOF 7473, H.
- C. graveolens* (M.Bieb.) Kuntze subsp. *rotundifolium* (Pers.) Govaerts, 1, Kavakseydibaşı Hill, rocky field, 910 m, 14.06.2014, 41°37'14" K, 032°36'32" D, T 3394, DUOF 7474, H.
- Galeopsis bifida* Boenn., 1, Kavakseydibaşı Hill, 410 m, 14.06.2014, 41°37'14"K 032°36'32"D, T 3438, T., Eu.Sib. el.
- Lamium garganicum* L., 1, Ulukaya Waterfall, 350 m, 23.04.2015, 41°40'06"K, 032°45'52"D, T 3612, DUOF 7475, H.
- L. purpureum* L., 3, Aliobası Village, Yukarışal Neighbourhood, meadow, 340 m., 22.03.2014, 41°43'30"K 32°33'28"D, T 2983, DUOF 7476, Th., Eu.Sib. el.
- Mentha longifolia* (L.) L., 1, Tekmenoğlu Neighbourhood, 250 m, 14.07.2014, 41°32'40"K 032°33'25"D, T 3460, DUOF 7477, H., Eu.Sib. el.
- Melissa officinalis* L. subsp. *officinalis*, 1, Ulukaya Waterfall, 350 m, 20.06.2013, 41°40'06"K, 032°45'52" D, T 2921, DUOF 7478, H.
- Origanum vulgare* L. subsp. *viride* (Boiss.) Hayek, 3, Aliobası Village, meadow, 340 m., 25.07.2014, 41°43'30"K 32°33'28"D, T 3510, DUOF 7479, H.
- O. vulgare* L. subsp. *vulgare*, 1, Drahna Valley, Kemerli Cave, rocky field, 600 m, 14.06.2014, 41°41'06" K, 032°46'52" D, T 3418, DUOF 7480, H., Eu.Sib. el.
- Prunella laciniata* (L.) L., 1, Abdurrahman Village, meadow, 875 m., 09.05.2015 41°43'24"K 32°44'41"D, T 3634, H., Eu.Sib. el.
- P. vulgaris* L., 1, Kavakseydibaşı Hill, meadow field, 910 m, 11.05.2014, 41°37'14"K, 032°36'32"D, T 3330, DUOF 7481, H., Eu.Sib. el.
- Phlomis russeliana* (Sims) Lag. ex Benth, 2, Zoni Alm, roadside, 41°43'32"K 32°37'46"D, 800 m., T 4225, DUOF 7482, H., Eu.Sib. el., E.
- Salvia virgata* Jacq., 3, Aliobası Village, Yukarışal Neighbourhood, meadow, 340 m., 19.07.2014, 41°43'30"K 32°33'28"D, T 4072, DUOF 7483, H., Ir-Tur. el.
- S. verticillata* L. subsp. *verticillata*, 2, Örenkaya Hill, 670 m, 19.05.2015, 41°42'51"K, 033°39'25"D, T 3670, DUOF 7484, H., Eu.Sib. el.
- S. viridis* L., 1, Tekmenoğlu Neighbourhood, roadside, 270 m, 19.05.2015, 41°32'40"K, 032°33'25"D, T 3375, DUOF 7485, Th., Med. el.
- S. forskahlei* L., 2, Zindanlık Hill location, meadow field, 470 m, 09.06.2014, 41°37'51"K, 032°33'25" D, T 3371, DUOF 7486, H., Eu.Sib. el.
- S. verbenaca* L., 1, Ulukaya Waterfall, 350 m, 11.05.2014, 41°40'06"K, 032°45'52"D, T 3194, DUOF 7487, H., Med. el.
- S. tomentosa* Mill., 2, Örenkaya Hill, roadside, rocky field, 670 m, 14.06.2014, 41°42'51"K, 033°39'25" D, T 2918, DUOF 7488, H., Med. el.
- S. sclarea* L., 1, Drahna Valley, rocky field, 450 m., 09.06.2014, 41°40'21"K 34°44'44"D, T 3348, DUOF 7489, H.
- Sideritis dichotoma* Huter, 1, Ulukaya Waterfall, 350 m, 14.06.2014, 41°40'06"K, 032°45'52"D, T 3449, DUOF 7490, H., E.

- S. montana* L., 3, Aliobası Village, Yukarışal Neighbourhood, meadow, 340 m., 22.06.2015, 41°43'30" K 32°33'28"D, T 4046, DUOF 7491, Th., Med. el.
- Scutellaria albida* L. subsp. *albida*, 1, Drahna Valley, rocky field, 770 m, 19.05.2014, 41°40'40" K, 034°45'41" D, T 4226, H., Med. el.
- S. altissima* L., 2, Örenkaya Hill, 670 m, 09.06.2014, 41°42'51"K, 033°39'25"D, T 3352, DUOF 7492, H., Eu.Sib. el.
- Stachys thirkei* K.Koch., 2, Zindanlık Hill location, meadow field, 470 m, 16.06.2015, 41°37'51"K, 032°33'25"D, T 2887, DUOF 7493, H.
- S. sylvatica* L., 1, Drahna Valley, rocky field, 751 m, 19.05.2014, 41°40'40"K, 034°45'41"D, T 3390, DUOF 7494, H., Eu.Sib. el.
- S. officinalis* L. subsp. *officinalis*, 1, Kavakseydibaşı Hill, 910 m, 21.05.2013, 41°37'14"K, 032°36'32"D, T 2873, DUOF 7495, H., Eu.Sib. el.
- S. annua* (L.) L. subsp. *annua*, 1, Kavakseydibaşı Hill, rocky field, 910 m, 01.05.2014, 41°37'14"K 032°36'32"D, T 3039, DUOF 7496, H.
- S. germanica* L., 3, Epçiler Village Sipahiler Cave road, 310 m., 11.05.2014, 41°36'46"K 32°28'04"D, T 3216, DUOF 7497, H., R.
- S. iberica* M.Bieb. subsp. *iberica* var. *iberica*, 1, Kavakseydibaşı Hill, 910 m, 14.06.2014, 41°37'14"K, 032°36'32"D, T 3374, DUOF 7498, H., Ir-Tur. el.
- S. byzantina* K.Koch, 2, Zoni Alm, 710 m., 19.07.2014, T 3485, 41°43'32"K 32°37'46"D, DUOF 7499, H., Eu.Sib. el., R.
- S. officinalis* (L.) Trevisan subsp. *haussknechtii* (Nyman) Greuter & Burdet, 2, Zindanlık Hill location, 470 m, 14.06.2014, 41°37'51"K, 032°33'25"D, T 3469, DUOF 7500, H.
- Teucrium chamaedrys* L. subsp. *chamaedrys*, 1, Kavakseydibaşı Hill, 910 m, 14.06.2014, 41°37'14"K 032°36'32"D, T 3435, DUOF 7501, H., Eu.Sib. el.
- T. polium* L., 3, Aliobası Village, rocky field, 370 m., 14.06.2014, 41°43'30"K 32°33'28"D, T 3446, DUOF 7502, Ch.
- Thymus praecox* Opiz subsp. *jankae* (Celak.) J alas, 3, Aliobası Village, Yukarışal Neighbourhood, 340 m., 19.05.2014, 41°43'30"K 32°33'28"D, T 3326, DUOF 7503, Ch.
- OROBANCHACEAE / *Bartsia trixago*** L., 1, Kavakseydibaşı Hill, meadow field, 910 m, 14.06.2014, 41°37'14"K 32°36'32"D, T 3414, DUOF 7504, Th.
- Lathraea squamaria* L., 2, Örenkaya Hill, 670 m, 22.03.2014, 41°42'51"K 33°39'25"D, T 2974, DUOF 7505, H., Eu.Sib. el.
- Melampyrum arvense* L. var. *arvense*, 1, above Çerçi Village, 41°36'09"K 32°34'50"D, 560 m., 21.05.2013, T 2856, DUOF 7506, Th., Eu.Sib. el.
- M. arvense* L. var. *elatus* Boiss., 1, Çerçi Village, 41°36'09"K 32°34'50"D, 560 m., 19.07.2014, T 3483, DUOF 7507, Th., Eu. Sib. el., E.
- Orobanche grisebachii* Reut., 1, Kavakseydibaşı Hill, meadow field, 910 m, 14.06.2015, 41°37'14" K 032°36'32" D, T 4228, G., Med. el.
- O. minor* Sm., 3, Epçiler Village, Sipahiler Cave road, 310 m., 23.06.2015, 41°36'46"K 32°28'04"D, T 3428, DUOF 7508, G.
- O. lutea* Baumg., 3, Aliobası Village, 340 m., 41°43'30"K 32°33'28"D, T 3144, DUOF 7509, G.
- O. crenata* Forssk., 1, Kavakseydibaşı Hill, 910 m, 11.05.2014, 41°37'14" K 032°36'32" D, T 2805, G.
- O. schultzii* Mutel, 1, Kavakseydibaşı Hill, meadow field, 910 m, 22.06.2015, 41°37'14" K 032°36'32" D, T 3573, DUOF 7510, G., Med. el.
- O. pubescens* d'Urv., 1, Ulukaya Waterfall, 350 m, 01.05.2014, 41°40'06" K 032°45'52" D, T 3223, DUOF 7511, G., Med. el.
- O. alba* Stephan ex Willd., 2, Örenkaya Hill, 670 m, 01.05.2014, 41°42'51"K 033°39'25"D, T 2864, DUOF 7512, G.
- O. nana* (Reut.) Beck, 1, Kavakseydibaşı Hill, meadow field, 910 m, 14.06.2015, 41°37'14"K 032°36'32"D, T 4230, DUOF 7513, G.
- Pedicularis comosa* L. var. *sibthorpii* (Boiss.) Boiss., 1, Kavakseydibaşı Hill, meadow field, 910 m, 19.05.2014, 41°37'14"K, 032°36'32"D, T 3310, DUOF 7514, H.
- AQUIFOLIACEAE / *Ilex colchica*** Pojark., 1, Arit road, above Şahin Village, 775 m., 16.06.2015, 41°39'04"K 32°34'35"D, T 3590, DUOF 7515, Ph., Eu.Sib. el.

- I. aquifolium* L., 2, Zoni Alm, 41°43'32"K 32°37'46"D, 800 m., 20.07.2015, T 4231, Ph., R.
- CAMPANULACEAE / *Campanula lyrata* Lam. subsp. *lyrata***, 1, Drahna Valley, Kemerli Cave, 850 m, 19.05.2014, 41°41'06"K, 032°46'52" D, T 3275, DUOF 7516, H.
- C. grandis* Fisch. & C.A.Mey. subsp. *grandis*, 1, Ulukaya Village, 350 m, 41°40'06" K 032°45'52" D, 19.05.2014, T3262, DUOF 7517, H., Eu.Sib.el., E.
- C. latifolia* L., İlyasgeçidi location, roadside, 47°86'40"K 46°27'94"D, 370 m., 14.06.2015, T 3543, H., Eu.Sib.el.
- C. olympica* Boiss., 1, Drahna Valley, rocky field, 770 m, 14.06.2014, 41°40'40"K, 034°45'41"D, T 3172, DUOF 7518, H., Eu.Sib. el.
- C. glomerata* L. subsp. *hispida* (Witasek) Hayek, 2, Örenkaya Hill, rocky field, 670 m, 22.06.2015, 41°42'51"K, 033°39'25"D, T 3571, DUOF 7519, H., Eu.Sib. el.
- C. rapunculoides* L., 2, Örenkaya Hill, rocky field, 670 m, 19.07.2014, 41°42'51"K, 033°39'25"D, T 3265, DUOF 7520, H., Eu.Sib. el.
- Asyneuma limonifolium* (L.) Janch. subsp. *limonifolium*, 3, Çanakçılar Village, above Deremescit Neighbourhood, 370 m., 21.05.2013, 41°42'41"K 32°31'15"D, T 2851, DUOF 7521, H.
- A. rigidum* (Willd.) Grossh. subsp. *rigidum*, 1, Arit road, Samanyeri location, 41°36'10"K 32°32'62" D, 550 m., 19.07.2014, T 3480, DUOF 7522, H., Ir-Tur el.
- Legousia falcata* (Ten.) Fritsch ex Janch., 1, Arit road, meadow field, 41°36'10"K 32°32'62"D, 550 m., 11.05.2014, T 3183, DUOF 7523, Th., Med. el.
- ASTERACEAE (COMPOSITAE) / *Achillea biebersteinii* Afan.**, 4, İlyasgeçidi location, 47°86'40"K 46°27'94"D, 182 m., 19.05.2014, T 3674, DUOF 7524, H., Ir-Tur. el.
- Anthemis cretica* L. subsp. *pontica* (Willd.) Grierson, 4, İlyasgeçidi location, rocky field, 47°86'40"K 46°27'94"D, 182 m., 23.04.2015, T 2844, DUOF 7525, H.
- Bellis perennis* L., 4, İlyasgeçidi location, meadow, 47°86'40"K 46°27'94"D, 182 m., 14.05.2014, T 2957, DUOF 7526, H., Eu.Sib. el.
- Carduus nutans* L., 4, İlyasgeçidi location, roadside, 47°86'40"K 46°27'94"D, 170 m., 14.06.2015, T 3544, DUOF 7527, H.
- C. pycnocephalus* L. subsp. *albidus* (Bieb.) Kazmi, 1, Ekşioğlu Neighbourhood, 450 m, 14.06.2015, 41°38'10"K, 032°47'16"D, T 4233, Th.
- Carthamus lanatus* L., 2, Zindanlık Hill location, meadow field, 470 m, 25.07.2014, 41°37'51"K, 032° 33'25" D, T 3506, DUOF 7528, Th.
- Centaurea phrygia* L. subsp. *stenolepis* (A.Kern.) Gugler, 1, Çerçi Village, 41°36'09"K 32°34'50"D, 560 m., 19.07.2014, T 3487, H., Eu.Sib. el.
- C. diffusa* Lam., 1, Ekşioğlu, 440 m, 20.06.2013, 41°38'10"K, 032°47'16"D, T 2903, H., Med. el.
- C. urvillei* DC. subsp. *hayekiana* Wagenitz, 1, Ekşioğlu Neighbourhood, 740 m, 14.07.2014, 41°38'10" K, 032°47'16"D, T 3432, DUOF 7529, H., Ir-Tur. el., E.
- C. urvillei* DC. subsp. *stepposa* Wagenitz, 1, Köklü Village, 740 m., 14.07.2014, 41°42'25"K 32°50' 29"D, T 3461, DUOF 7530, H., Ir-Tur. el.
- C. iberica* Trevir. ex Spreng., 1, Ekşioğlu Neighbourhood, meadow field, 740 m, 20.06.2013, 41°38'10"K, 032°47'16"D, T 2925, DUOF 7531, Th.
- C. inexpectata* Wagenitz, 1, Arit road, rocky field, 41°36'09"K 32°34'50"D, 560 m., T 4234, DUOF 7532, H., Eu.Sib. el., E.
- C. solstitialis* L. subsp. *solstitialis*, 1, above Ulukaya Waterfall, 350 m, 25.07.2014, 41°40'06" K, 032° 45'52" D, T 3502, DUOF 7533, Th.
- C. cadmea* Boiss subsp. *pontica* Wagenitz ex Y.B. Köse et Ocak, 1, Ulukaya Waterfall, 310 m, 20.06.2013, 41°40'06" K, 032°45'52" D, T 2896, DUOF 7534, H., E.
- C. virgata* Lam., 1, Köklü Village, roadside, 880 m., 15.07.2014, 41°42'25"K 32°50'29"D, T 3500, DUOF 7535, H., Ir-Tur. el.
- Chondrilla juncea* L., 1, Arit dağ yolu, 41°36'09"K 32°34'50"D, 560 m., 20.07.2016, T 4235, H.
- Cichorium intybus* L., 1, Kavakseydibaşı Hill, 910 m, 14.06.2015, 41°37'14"K, 032°36'32"D, T 4236, H.
- Cirsium canum* (L.) All., 2, Zoni Alm, meadow field, 41°43'32"K 32°37'46"D, 910 m., 25.07.2014, T 3444, DUOF 7536, H., Eu.Sib. el.
- C. arvense* (L.) Scop., 1, Arit road, rocky field, 41°36'09"K 32°34'50"D, 560 m., 19.07.2014, T 3488, DUOF 7537, H.

- C. hypoleucum* DC., 1, Ekşioğlu Neighbourhood, 740 m, 19.05.2014, 41°38'10"K 032°47'16"D, T 3324, DUOF 7538, H., Eu.Sib. el.
- Cota tinctoria* (L.) J.Gay var. *discoidea* (All.) Özbek & Vural, 4, İlyasgeçidi location, 47°86'40"K 46°27'94"D, 205 m., 11.05.2014, T 3151, DUOF 7539, H.
- C. tinctoria* (L.) J.Gay var. *pallida* (DC.) U. Özbek & Vural, 1, above Çerçi Village, stream side, 41°36'09"K 32°34'50"D, 560 m., 14.05.2017, T 4256, DUOF 7540, H.
- Crepis sancta* (L.) Bornm., 1, above Ulukaya Waterfall, 370 m, 22.02.2014, 41°40'06"K, 032°45'52"D, T 2941, DUOF 7541, Th.
- Crupina crupinastrum* (Moris) Vis., 2, Zindanlık Hill location, meadow field, 470 m, 14.06.2015, 41°37'51"K, 032°33'25"D, T 3576, DUOF 7542, Th.
- Doronicum orientale* Hoffm., 1, Kavakseydibaşı Hill location, 910 m, 14.06.2015, 41°37'14"K, 032°36'32"D, T 3523, DUOF 7543, H.
- Echinops viscosus* DC. subsp. *bithynicus* (Boiss.) Rech. fil., 2, Zoni Alm, meadow field, 41°43'32"K 32°37'46"D, 910 m., 25.07.2014, T 3503, DUOF 7544, H.
- Erigeron acer* L. subsp. *acer*, 2, Zoni Alm, 41°43'32"K 32°37'46"D, 910 m., 19.07.2014, T 3478, DUOF 7545, H., Eu.Sib. el.
- E. canadensis* L., 2, Zindanlık Hill location, meadow field, 470 m, 14.06.2015, 41°37'51"K 032°33'25"D, T 3472, DUOF 7546, H.
- Filago vulgaris* Lam., 1, Arit road, rocky field, 41°36'09"K 32°34'50"D, 560 m., 20.06.2013, T 2910, DUOF 7547, Th.
- F. eriocephala* Guss., 2, Zindanlık Hill location, 470 m, 14.06.2014, 41°37'51"K, 032°33'25"D, T 3421, DUOF 7548, Th., Med. el.
- Gnaphalium sylvaticum* L., 1, Ulukaya Village, 350 m, 41°40'06"K 032°45'52"D, 19.05.2014, T 3260, H., Eu.Sib.el.
- Helichrysum graveolens* (M.Bieb.) Sweet, 1, Drahna Valley, rocky field, 770 m, 14.06.2014, 41°40'40"K, 034°45'41"D, T 3171, H.
- Hypochaeris glabra* L., 2, Zindanlık Hill location, meadow field, 470 m, 14.06.2015, 41°37'51"K, 032°33'25"D, T 3580, H.
- Inula helenium* L. subsp. *orgyalis* (Boiss.) Grierson, 1, Köklü Village, roadside, 740 m., 14.07.2014, 41°42'25"K 32°50'29"D, T 3425, DUOF 7550, H., Eu.Sib. el., E.
- I. ensifolia* L., 4, İlyasgeçidi location, meadow, 47°86'40"K 46°27'94"D, 202 m., 14.05.2014, T 2956, H., Eu.Sib. el.
- I. salicina* L., 1, Ekşioğlu Neighbourhood, Gökpınar location, 740 m, 23.06.2015, 41°38'10"K, 032°47'16"D, T 3540, DUOF 7549, H., Eu.Sib. el.
- Jurinea mollis* (L.) Rchb., 4, İlyasgeçidi location, roadside, 47°86'40"K 46°27'94"D, 182 m., T 4064, DUOF 7551, H.
- Lapsana communis* L. subsp. *intermedia* (M.Bieb.) Hayek var. *intermedia*, 1, Kavakseydibaşı, 910 m, 14.06.2015, 41°37'14 K, 032°36'32D, T 3577, DUOF 7552, Th.
- Leontodon tuberosus* L., 1, Arit road, rocky field, 41°36'09"K 32°34'50"D, 560 m., 19.05.2014, T 2815, DUOF 7553, H., Med. el.
- Lactuca muralis* (L.) Gaertn., 2, Zoni Alm, meadow field, 41°43'32"K 32°37'46"D, 910 m., 14.07.2014, T 3456, DUOF 7554, H.
- L. serriola* L., 1, Ekşioğlu Neighbourhood, Gökpınar location, meadow field, 740 m, 20.06.2013, 41°38'10"K, 032°47'16"D, T 2904, DUOF 7555, H., Eu.Sib. el.
- Pilosella hoppeana* (Schultes) C. H. et F. W. Schultz subsp. *pilisquama* (Nägeli & Peter) P.D.Sell & C.West, 2, Zoni Alm, 870 m, 19.05.2014, 41°37'51"K, 032°33'25"D, T 3304, H.
- P. hoppeana* (Schultes) C. H. et F. W. Schultz subsp. *troica* (Zahn) P.D.Sell & C.Wes, 4, İlyasgeçidi location, 47°86'40"K 46°27'94"D, 200 m, 14.06.2014, T 3426, DUOF 7556, H.
- P. piloselloides* (Vill.) Sojak subsp. *megalomastix* (Nägeli & Peter) P.D.Sell & C.West, 2, Zindanlık Hill, 470 m, 11.05.2014, 41°37'51"K 032°33'25"D, T 3157, DUOF 7557, H.
- Picnomon acarna* (L.) Cass., 1, Köklü Village, 740 m., 20.06.2013, 41°42'25"K 32°50'29"D, T 2892, DUOF 7558, Th., Med. el.
- Pulicaria dysenterica* (L.) Gaertn., 1, Ekşioğlu Neighbourhood, Gökpınar location, meadow field, 740 m, 19.07.2014, 41°38'10"K, 032°47'16"D, T 3475, DUOF 7559, H.

- Petasites hybridus* (L.) P.Gaertn., 1, Tekmenoğlu Neighbourhood, 270 m, 14.07.2015, 41°32'40"K, 032°33'25"D, T 4238, H., Eu.Sib. el.
- Pallenis spinosa* (L.) Cass., 4, İlyasgeçidi location, 47°86'40"K 46°27'94"D, 190 m., 19.05.2014, T 4071, DUOF 7560, Th., Med. el.
- Reichardia dichotoma* (DC.) Freyn, 1, Ulukaya Waterfall, 390 m, 19.07.2014, 41°40'06"K 032°45'52"D, T 3479, DUOF 7561, Th.
- Solidago virgaurea* L. subsp. *virgaurea*, 1, Çerçi Village, 41°36'09"K 32°34'50"D, 560 m., 19.07.2014, T 3482, H., Eu. Sib. el
- Sonchus asper* (L.) Hill subsp. *glaucescens* (Jord.) Ball ex Ball, 2, Zindanlık Hill location, roadside, 440 m, 23.04.2014, 41°37'51"K, 032°33'25"D, T 3045, DUOF 7562, Th.
- S. oleraceus* (L.) L., 1, Köklü Village, *abies* forest, 853 m., 23.04.2015, 41°42'25"K 32°50'29"D, T 3607, DUOF 7563, Th.
- Senecio leucanthemifolius* Poir. subsp. *vernalis* (Waldst. & Kit.) Greuter, 2, Samanyeri location, 41°36'10"K 32°32'62"D, 570 m., 22.02.2014, T 2750, DUOF 7564, Th.
- S. vulgaris* L., 1, Ekşioğlu Neighbourhood, Gökpınar location, meadow field, 740 m, 13.04.2013, 41°38'10"K 32°47'16"D, T 2802, DUOF 7565, Th.
- Scorzonera mollis* M.Bieb. subsp. *mollis*, 1, Arit road, rocky field, 41°36'09"K 32°34'50"D, 560 m., 14.06.2014, T 3407, DUOF 7566, H.
- Tragopogon pterodes* Petrovič, 1, Ekşioğlu Neighbourhood, Gökpınar location, 740 m, 22.06.2015, 41°38'10"K 032°47'16"D, T 3556, DUOF 7567, H.
- T. porrifolius* L. subsp. *longirostris* (Sch. Bip.) Greuter, 1, Ulukaya Waterfall, 310 m, 19.05.2015, 41°40'06"K, 032°45'52"D, T 3666, DUOF 7568, Th., Med. el.
- T. dubium* Scop., 1, Ekşioğlu Neighbourhood, Gökpınar location, meadow field, 740 m, 19.05.2014, 41°38'10"K 032°47'16"D, T 3259, DUOF 7569, Th.
- Tussilago farfara* L., 1, Tekmenoğlu Neighbourhood, 270 m, 23.04.2014, 41°32'40"K 032°33'25"D, T 3025, DUOF 7570, H., Eu.Sib. el.
- Tripleurospermum oreades* (Boiss.) Rech.f., 1, Ulukaya Waterfall, rocky field, 375 m, 22.03.2014, 41°40'06"K, 032°45'52"D, T 2799, DUOF 7571, H.
- Tanacetum parthenium* (L.) Sch.Bip., 1, Arit road, rocky field, 41°36'09"K 32°34'50"D, 560 m., 19.05.2014, T 3254, DUOF 7572, H.
- Telekia speciosa* (Schreb.) Baumg., 4, İlyasgeçidi location, roadside, 47°86'40"K 46°27'94"D, 182 m. T 4239, H., Eu.Sib. el.
- Taraxacum officinale* (L.) Weber ex F.H.Wigg., 1, Ulukaya Waterfall, 310 m, 10.04.2015, 41°40'06"K, 032°45'52"D, T 4240, Th.
- T. macrolepium* Schischk., 1, Tekmenoğlu Neighbourhood, 250-900 m, 15.05.2017, 41°32'40"K, 032°33'25"D, T 4268, DUOF 7573, H.
- Xeranthemum cylindraceum* Sm, 1, Arit road, rocky field, 41°36'09"K 32°34'50"D, 560 m., 22.06.2015, T 3551, DUOF 7574, Th.
- CAPRIFOLIACEAE / *Centranthus longiflorus*** Steven subsp. *longiflorus*, 1, Ekşioğlu Neighbourhood, 740 m., 09.06.2014, 41°38'10"K 032°47'16"D, T 3353, DUOF 7575, H., Ir-Tur. el.
- Dipsacus laciniatus* L., 1, Köklü Village, 853 m., 23.04.2014, 41°42'25"K 32°50'29"D, T 4241, H.
- Lonicera caucasica* Pall. subsp. *orientalis* (Lam.) Chamb. et Long, 2, Zoni Alm, 41°33'30"K 32°25'13"D, 310 m., T 4242, Ph.
- Pterocephalus plumosus* (L.) Coulter, 1, Ekşioğlu Neighbourhood, Gökpınar location, meadow field, 740 m, 09.06.2014, 41°38'10"K, 032°47'16"D, T 3360, DUOF 7576, Th.
- Scabiosa columbaria* L. subsp. *columbaria* var. *columbaria*, 2, Zindanlık Hill location, meadow field, 470 m, 19.05.2014, 41°37'51"K, 032°33'25"D, T 3277, DUOF 7577, H.
- S. columbaria* L. subsp. *columbaria* var. *intermedia* (Post) Matthews, 2, Zoni Alm, 41°33'30"K 32°25'13"D, 310 m., 14.05.2017, T 3430, DUOF 7578, H.
- S. micrantha* Desf., 1, Ekşioğlu Neighbourhood, Gökpınar location, meadow field, 530 m, 19.07.2014, 41°38'10"K, 032°47'16"D, T 3474, T.
- Knautia degenii* Borbás, 3, Acarlar Village Akçabelen Neighbourhood, 175 m., 09.06.2014, 41°45'27"K 32°34'05"D, T 3391, DUOF 7579, Th., Med. el., E.

*Sambucus ebulus* L., 3, Acarlar Village, 175 m., 41°45'27"K 32°34'05"D, 19.06.2015, T 4244, H., Eu.Sib. el.

*S. nigra* L., 2, Zoni Alm, 41°33'30"K 32°25'13"D, 310 m., 19.06.2015, T 4245, Ph., Eu.Sib. el.

**ARALIACEAE / *Hedera helix* L.**, 2, Zindanlık Hill location, meadow field, 470 m, 19.06.2015, 41°37'51"K 032°33'25"D, T 4246, DUOF 7580, Ph.

**APIACEAE (UMBELLIFERAE) / *Bupleurum falcatum* subsp. *cernuum* (Ten.) Arcang.**, 2, Örenkaya Hill, rocky field, 670 m, 22.06.2015, 41°42'51"K, 033°39'25" D, T 3570, H.

*Caucalis platycarpus* L., 2, Zindanlık Hill location, meadow field, 470 m, 11.05.2014, 41°37'51"K 032°33'20"D, T 3203, DUOF 7581, Th.

*Chaerophyllum aureum* L., 1, Ekşioğlu Neighbourhood, meadow field, 440 m, 09.06.2014, 41°38'10"K 032° 47'16"D, T 3351, H.

*C. byzantinum* Boiss., 1, Kavakseydibaşı, 750 m, 14.06.2015, 41°37'14"K, 032°36' 32"D, T 3525, H.

*Daucus carota* L., 1, Kavakseydibaşı Hill, meadow field, 640 m, 22.06.2015, 41°37'14"K 032°36'32"D, T 3575, H.

*Eryngium campestre* L. subsp. *campestre*, 2, Zindanlık Hill location, roadside, 440 m, 23.04.2014, 41°37'51"K, 032°33'25"D, T 3044, H.

*Heracleum platytaenium* Boiss., 1, Ulukaya Waterfall, 310 m, 19.06.2015, 41°40'06"K 032°45'52"D, T 4247, H., Eu.Sib. el.

*Laser trilobum* (L.) Borkh., 2, Zoni Alm, roadside, 41°33'30"K 32°25'13"D, 310 m, 17.06.2015, T 3675, DUOF 7582, H.

*Orlaya grandiflora* (L.) Hoffm., 2, Zindanlık Hill location, 470 m, 11.05.2014, 41°37'51"K 032°33'25" D T 3207, DUOF 7583, Th.

*Oenanthe pimpinelloides* L., 4, İlyasgeçidi location, 47°86'40"K 46°27'94"D, 182 m., 01.05.2014, T 3239, DUOF 7584, H.

*Sanicula europaea* L., 2, Samanyeri location, 41°36'10"K 32°32'62"D, 570 m., 11.05.2014, T 3152, DUOF 7585, H., Eu.Sib. el.

*Seseli resinosum* Freyn & Sint., 1, Ulukaya Waterfall, 310 m, 20.06.2013, 41°40'06"K 032°45'52"D, T 2913, DUOF 7586, H., Eu.Sib. el., E.

*Torilis arvensis* (Huds.) Link subsp. *arvensis*, 1, Draha Valley rocky field, 950 m., 20.06.2013, 41°40'21"K 34°44'44"D, T 2919, DUOF 7587, H.

*T. nodosa* (L.) Gaertn., 1, above Çerçi Village, Arıt road, 41°36'09"K 32°34'50"D, 560 m., 14.05.2017, T 4254, DUOF 7588, H.

### 3.2. The Phytogeographical Regions of the Taxa and Their Floristic Explanation

The phytogeographical distribution of taxa is as follows. 182 (27,8 %) of these taxa are Euro-Siberian, 74 (11,2 %) of these are Mediterranean, 18 (2,7 %) of it are Irano-Turanian, and the rest 381 taxa (58 %) are widely distributed and unknowns (Table 2).

**Table 2.** The phytogeographical distribution of taxa in the research area.

Phytogeographical region	Taxa Number	Proportional distribution (%)
Euro-Siberian	182	27,8
Mediterranean	74	11,2
Irano-Turanian	18	2,7
Widely distributed plants and unknowns	381	58

The first 5 families which include the most plant genera and the proportions of them are given in the Table 3. In the research area, the family of Compositae includes the highest number of genera with 33 specimens. Its ratio is 11.4 %.

**Table 3.** The 5 families which include the most plant genera and the proportions of them.

Family	The number of genera	The proportion of these genera in the total number of genera (%)
Compositae	41	11,4
Fabaceae	25	7
Rosaceae	21	5,8
Brassicaceae	18	5
Poaceae	17	4.8

The families which include the most taxa in the research area Compositae 64 taxa (9,9 %) and Leguminosae 63 taxa (9,6 %; Table 4).

**Table 4.** The families which include the most taxa in the research area.

Family	Taxa Number	The proportion of these taxa in the total number of taxa (%)
Compositae	64	9,8
Leguminosae	63	9,6
Labiatae	39	5,9
Rosaceae	37	5,6
Orchidaceae	33	5

Life forms of identified plants revealed according to Raunkier plant life-form. Hemicryptophyte plants are in the first place with 304 taxa while therophyte plants are the second with 141 taxa. The density of the phanerophyte plants with 94 taxa shows that the reserch area is a natural arboretum that has rich of woody plant. 94 geophyte plants also sign of the rich floristic structure of the research area (Table 5).

**Table 5.** The distribution of life forms of the plants according to Raunkier plant life-form.

Life form	Taxa number	Proportional distribution (%)
Phanerophyte	99	15,1
Chamaephyte	16	2,4
Hemicryptophyte	304	46,4
Cryptophyte:Geophyte+ Hydrophyte	95 (91 + 4)	14,5
Therophyte	141	21,5
Total	655	100

### 3.3 Comparing The Flora Of The Research Area With The Flora Of The Other Studies Of Near Environment

The comparison of the research area with the phytogeographical regions of near environment flora studies is given in the Table 6. The research area which locates in the euxine of Euro-Siberian flora region, the plants belong to this flora region come first with the ratio of 27.8% when it is compared to other studies this ratio is higher than the studies of Elmacık, Kurtgirmez-Çatak, Armutlu Çayırı, Batı Küre and Yaylacık in which the effect of marine climate is seen less. Mediterranean floristic region plants are higher in the



research area than the studies conducted in middle and Xero-Euxine. The most important reason is that the research area located on the mainly beachside slopes. The Irano-Turanian flora region plants are also higher than the studies conducted in Kirazlık, Kurucaşile, Amasra-İnkum, Yaylacık and Armutlu Çayı. Xero-Euxine effect especially in the borders of Ulus district of National Park is the most important reason of this result.

**Table 6.** The comparison of the research area with the elements of phytogeographical regions of near environment studies (%).

Phytogeographical region	1	2	3	4	5	6	7	8	9	10
Mediterranean	11,2	8,41	14,08	3,71	2,53	14,3	7,26	13,37	14,08	13,24
Euro-Siberian	27,8	33,59	19,68	31,55	29,94	41,8	36,3	25,77	25,94	26,22
Irano-Turanian	2,7	6,51	11,37	5,33	1,04	8	1,65	0,96	1,06	1,78
Widely distributed plants and unknowns	58	51,50	54,87	61,10	65,98	35,9	54,79	59,89	58,92	58,48
1- Küre Mountains (Bartın)						6- Batı Küre (Ketenoglu, 1997).				
2- Elmacık Mountain (Aksoy, 2006).						7- Yaylacık (Kaptanoğlu, 1995).				
3- Argözü Valley (Özkan, 2016).						8- Amasra-İnkum (Yatgın, 1996).				
4- Kurtgirmez-Çatak (Özbek, 2004).						9- Kurucaşile (Ekici, 2012).				
5- Armutlu Çayır (Özen, 2013).						10-Kirazlık (Başaran, 1999).				

From 95 family determined in the research area, 5 families which include the most taxa are compared with other studies in terms of taxa number (Table 7). The taxa numbers in families have generally same proportions. However, the taxa number of Orchidaceae family is higher when it is compared to other studies. 33 taxa belong to this family were determined. So, it can be said that the research area has rich Orchidaceae taxa.

**Table 7.** The comparison of the families which include the most taxa in terms of species and subspecies in the near environment of the research area (%).

Family	1	2	3	4	5	6	7	8	9	10
Compositae	9,8	13,33	9,21	9,28	11,6	9,78	10,56	9,84	9,84	13,81
Leguminosae	9,6	6,98	8,48	7,65	5,58	10,2	8,25	7,42	7,08	7,11
Labiatae	5,9	6,35	4,87	6,96	7,61	6,2	6,93	4,84	4,53	6,9
Rosaceae	5,6	4,28	5,96	5,8	9,13	4,3	6,93	2,9	4,9	5,23
Orchidaceae	5	1,9	1,81	1,6	1,2	1,7	0,9	0,8	1,18	0,63
1- Küre Dağları (Bartın)						6- Batı Küre (Ketenoglu, 1997).				
2- Elmacık Dağı (Aksoy, 2006).						7- Yaylacık (Kaptanoğlu, 1995).				
3- Argözü Valley (Özkan, 2016).						8- Amasra-İnkum (Yatgın, 1996).				
4- Kurtgirmez-Çatak (Özbek, 2004).						9- Kurucaşile (Ekici, 2012).				
5- Armutlu Çayır (Özen, 2013).						10-Kirazlık (Başaran, 1999).				

### 3.4 New Taxa for A4 square

In the research area, 40 taxa were determined as new records for A4 square (Table 8).

**Table 8.** New taxa determined as new records for A4 square in the research area

No	New taxa	No	New taxa
1	<i>Aristolochia pallida</i> Willd.	21	<i>Hypericum atomarium</i> Boiss.
2	<i>Orchis provincialis</i> Balb. ex Lam. & DC.	22	<i>Linum corymbulosum</i> Rchb.
3	<i>Galanthus plicatus</i> M. Bieb. subsp. <i>plicatus</i> (Baker) D.A.Webb	23	<i>Cytinus ruber</i> (Fourr.) Fritsch
4	<i>Bellevalia clusiana</i> Griseb.	24	<i>Calepina irregularis</i> (Asso) Thell.
5	<i>Anemone nemorosa</i> L.	25	<i>Lepidium draba</i> L.
6	<i>Corydalis caucasica</i> subsp. <i>abantensis</i> Lidén	26	<i>Silene odontopetala</i> Fenzl
7	<i>Delphinium fissum</i> subsp. <i>anatolicum</i> Chowdhuri & P.H.Davis	27	<i>Silene coronaria</i> (Desr.) Clairv. ex Rchb.
8	<i>Ranunculus neapolitanus</i> Ten.	28	<i>Silene gallica</i> L.
9	<i>Lathyrus aphaca</i> L var. <i>floribundus</i> (Vel.) K. Maly	29	<i>Galium lovcense</i> Urum.
10	<i>Ornithopus compressus</i> L.	30	<i>Vincetoxicum scandens</i> Sommier & Levier
11	<i>Lathyrus setifolius</i> L.	31	<i>Fraxinus ornus</i> L.
12	<i>Vicia grandiflora</i> Scop. var. <i>grandiflora</i>	32	<i>Stachys officinalis</i> subsp. <i>hausknechtii</i> (Nyman) Greuter & Burdet
13	<i>Vicia bithynica</i> (L.) L.	33	<i>Melampyrum arvense</i> L. var. <i>elatus</i> Boiss.
14	<i>Vicia loiseleurii</i> (M.Bieb.) Litv.	34	<i>Orobanche grisebachii</i> Reut.
15	<i>Polygala comosa</i> Schkuhr	35	<i>Orobanche schultzei</i> Mutel
16	<i>Alchemilla caucasica</i> Buser	36	<i>Centaurea urvillei</i> DC. subsp. <i>hayekiana</i> Wagenitz
17	<i>Potentilla astracanicum</i> Jacq.	37	<i>Hypochoeris glabra</i> L.
18	<i>Ulmus minor</i> Mill. subsp. <i>canescens</i> (Melville) Browicz et Zielinski	38	<i>Reichardia dichotoma</i> (DC.) Freyn
19	<i>Euphorbia oblongifolia</i> (K.Koch) K.Koch	39	<i>Trifolium subterraneum</i> L.
20	<i>Euphorbia lathyris</i> L.	40	<i>Lathyrus vernus</i> (L.) Bernh.

The research area is mostly under the effect of Euro-Siberian flora region. When it is examined the new taxa for A4 square, it can be seen that some species belong to Mediterranean and Irano-Turanian floristic regions were recorded as new taxa records because of the effect of these regions.

#### 4. Conclusion

As conclusion, floristic data relating to the Küre Mountain National Park was obtained during research carried out over five years; 1450 plant specimens were collected. Identification result showed that total; 357 genera, 655 taxa, belonging to 95 families were determined. Of the 655 taxa, 12 taxa belong to Pteridophyta division while 643 taxa belong to the Spermatophyta division. In the Spermatophyta division, Gymnospermae and Angiospermae subdivisions contain 7 and 636 taxa, respectively. 94 taxa of Angiospermae belong to Monocotyledones class and the rest of 542 taxa belong to Dicotyledones class.

It is contributed to the plant diversity of Western Black Sea Region and Turkey by introducing the floristic diversity of Küre Mountains National Park (Bartın Section). Since

the research area was declared as a National Park in 2000, the highest preservation process has been carried on. So, it enables that the impact of human pressure has been kept on a minimum level. The structure of the field in Core Zone of Küre Mountains National Park in which the term buffer zone was firstly applied has steep and rugged geographical structure that composed of carstic rocks. Man-made hazards and threats to the richness of flora and fauna continue both throughout the National Park and partially in the Core Zone. Among these, there are collections of tubers and corms illegally (in order to make sahle), their marketing and illegal hunting activities. Buffer zone that surrounds the core zone enables local people to continue such activities like grazing, pasturage and agriculture.

Küre Mountains National Park (Bartın Section) has a rich flora and fauna, carstic caves, and virgin areas, so it is very important to prevent human intervention and human threats and to protect it for future generations. Increasing ecotourism activities in and around the National Park must be only allowed in buffer zone, and must be kept under control and the core zone which has a special structure must be accepted as an absolute conservation area.

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