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New Floristic Records for the Grid Square B3 Uluborlu - Isparta, Turkey

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ANGIOSPERMAE

DICOTYLEDONES

Ranunculaceae

Adonis annua L.

B3 Isparta: Uluborlu; around İnhisar village, edge of field, 1390 m., 6.6.1993, G. Kaynak, BULU 7035.

Ranunculus muricatus L.

B3 Isparta: Uluborlu; around Üğünlü, damp meadow, 1350 m., 13.4.1995, G. Kaynak, BULU 10541.

Berberidaceae

Berberis cretica L.

B3 Isparta: Uluborlu; in the vicinity of Uluborlu castle, slopes, 1200 m., 14.7.1998, G. Kaynak, BULU 10197.

Cruciferae

Arabis ionacalyx Boiss.

B3 Isparta: Uluborlu; between Uluborlu and Senirkent, roadside, slopes, 1000 m., 23.4.1999, G. Kaynak, BULU 10294.

Polygonaceae

Rumex tuberosus L. subsp. *horizontalis*

(K.Koch) K.Koch

B3 Isparta: Uluborlu; Başköy, edge of walls, roadside, 1160 m., 17.7.1997, G. Kaynak, BULU 10555.

Linaceae

Linum bienne Miller

B3 Isparta: Uluborlu; around İleydağ dam, slopes, 1350 m., 21.7.1995, G. Kaynak, BULU 10544.

Aceraceae

Acer negundo L.

B3 Isparta: Uluborlu; in the vicinity of Uluborlu castle, 1200 m., 14.7.1998, G. Kaynak, BULU 10194.

Fabaceae

Robinia pseudoacacia L.

B3 Isparta: Uluborlu; around İleydağ dam, roadsides, 1350 m., 15.7.1995, G. Kaynak, BULU 10545.

Astragalus nanus DC.

B3 Isparta: Uluborlu; Kapıdağ, Kalaycılar, stony ground, 1700 m., 11.5.1995, G. Kaynak, BULU 10543.

A. pinetorum Boiss.

B3 Isparta: Uluborlu; 2.5 km. along Başköy to Uluborlu road, field, roadsides, 1250 m., 17.7.1997, G. Kaynak, BULU 10082.

A. angustifolius Lam. subsp. *angustifolius* var. *violaceus* Boiss.

B3 Isparta: Uluborlu; Kapıdağ, Güden yaylası, rocky slopes, 1950 m., 28.7.1995, G. Kaynak, BULU 10550.

Trifolium purpureum Lois. var. *purpureum*

B3 Isparta: Uluborlu; Kapıdağ, around İkizoluk, edge of water, 1350 m., 24.7.1995, G. Kaynak, BULU 10549.- Hekimdöndüren, streamside, 1450-1650 m., 24.7.1995, G. Kaynak, BULU 10547.

Ebenus bourgaei Boiss.

B3 Isparta: Uluborlu; around Şalgamlı, clearings in forest, slopes, 1300 m., 18.7.1997, G. Kaynak, BULU 10556.

Rosaceae

Prunus cocomilia Ten. var. *puberula* (Schneider) Browicz

B3 Isparta: Uluborlu; around Uluborlu dam, roadsides, 1150 m., 15.8.1997, G. Kaynak, BULU 10175.

This endemic species is known from İzmir (B1) and Antalya (C2). This is the third locality for this local endemic.

Cotoneaster integerrimus Medik.

B3 Isparta: Uluborlu; above İleydağ dam, clearings in arboriculture area, 1350-1500 m., 26.7.1999, G. Kaynak, BULU 10041

Crassulaceae

Sedum caespitosum (Cav.) DC.

B3 Isparta: Uluborlu; Tekketepe, rocky and stony places, 1600 m., 23.7.1998, G. Kaynak, BULU 10207B.

Saxifragaceae

Saxifraga luteoviridis Schott & Kotschy

B3 Isparta: Uluborlu; Kapıdağ, Güden yaylası, rocks, 1950 m., 28.7.1995, G. Kaynak, BULU 7159.

This species is recorded from the B grid squares for the first time and this is the third locality from Turkey.

Apiaceae

Sium sisarum* L. var. *lancifolium
(M.Bieb.) Thell.

B3 Isparta: Uluborlu; Kapıdağ, Hisarardı, valley, along rivulet, damp and shady places, 1100-1300 m., 1.8.1995, G. Kaynak, BULU 10534.

***Foeniculum vulgare* Miller**

B3 Isparta: Uluborlu; Uluborlu centre, roadsides, 1100 m, 19.7.1997, G. Kaynak, BULU 10120.

***Conium maculatum* L.**

B3 Isparta: Uluborlu; around Başköy, next to water, 1150 m., 17.7.1997, G. Kaynak, BULU 10088.

***Microsciadium minutum* (d'Urv.) Briq.**

B3 Isparta: Uluborlu; junction of Tekketepe, 5 km., stony and rocky scree, 1600 m., 21.5.1994, G. Kaynak, BULU 8206.- Kapıdağ; Güden yaylası, mountain steppe, stony ground, 1950 m., 28.7.1995, G. Kaynak, BULU 10533A.

***Malabaila pastinacifolia* Boiss. & Bal.**

B3 Isparta: Uluborlu; 2.5 km. along Başköy to Uluborlu road, waste land, roadside, 1250 m., 17.7.1997, G. Kaynak, BULU 10080.

***Glaucosciadium cordifolium* (Boiss.)**
Burt & P.H.Davis

B3 Isparta: Uluborlu; around Şalgamlı, open forest clearings in arboriculture area, 1260 m., 18.7.1997, G. Kaynak, BULU 10093.- in the vicinity of Uluborlu dam, open places, roadsides, 1350 m., 22.8.1997, G. Kaynak, BULU 10152.

Valerianaceae

Centranthus longiflorus* Stev. subsp. *longiflorus

B3 Isparta: Uluborlu; around İnhisar village, slopes, 1390 m., 27.8.1993, G. Kaynak, BULU 8021.- Uluborlu to Senirkent, roadsides, slopes, 1100 m., 28.7.1995, G. Kaynak, BULU 10535.

***Valerianella kotschy* Boiss.**

B3 Isparta: Uluborlu; around Şalgamlı, waste land, 1100 m., 10.5.1995, G. Kaynak, BULU 10536.

Dipsacaceae

***Cephalaria taurica* Szabó**

B3 Isparta: Uluborlu; Kapıdağ, Akçay, stony and rocky places, 1000-1300 m. 19.7.1995, G. Kaynak, BULU 10538.

This locally endemic species is known from Hatay (C4, C5). This is the third locality for this species and the first record for the B grid squares.

Asteraceae

***Conyza bonariensis* (L.) Cronquist**

B3 Isparta: Uluborlu; Kapıdağ, Güden yaylası, mountain steppe, 1950 m., 28.7.1995, G. Kaynak, BULU 10533B.

***Centaurea mykalea* Hub.-Mor.**

B3 Isparta: Uluborlu; around Uluborlu dam, slopes, cleared forest, 1200 m., 30.7.1998, G. Kaynak, BULU 10381B.

Known only from the type locality, C1 Aydın. This is the second record for Turkey. The status of this endemic species is vulnerable (VU) according to the new IUCN categories.

***Picris pauciflora* Willd.**

B3 Isparta: Uluborlu; Tekketepe, Dorumoluğu, mountain steppe, 1650 m., 22.5.1994, G. Kaynak, BULU 8387.

***P. altissima* Delile**

B3 Isparta: Uluborlu; Uluborlu centre, roadsides, 1100 m., 3.8.1994, G. Kaynak, BULU 8970.

***Lactuca intricata* Boiss.**

B3 Isparta: Uluborlu; Kapıdağ, Ayçilesi, stony ground, 1900 m., 28.7.1995, G. Kaynak, BULU 10540.

***Taraxacum bithynicum* DC.**

B3 Isparta: Uluborlu; around Şalgamlı, waste land, 1100 m., 10.5.1995, G. Kaynak, BULU 10537.

***Crepis frigida* (Boiss. & Bal.) Babcock**

B3 Isparta: Uluborlu; around Tekketepe, rocky and stony places, 1900 m., 21.5.1994, G. Kaynak, BULU 8266.

Asclepiadaceae

***Vincetoxicum canescens* (Willd.) Decne**
subsp. *pedunculata* Browicz

B3 Isparta: Uluborlu; İnhisar, Çizenkaya, stony ridges, 1400-1600 m., 27.8.1993, G. Kaynak, BULU 8078.

Gentianaceae

***Centaureum pulchellum* (Swartz)**
Druce

B3 Isparta: Uluborlu; Kapıdağ, Güvercinlik, stony slopes, 1950 m., 12.8.1999, G. Kaynak, BULU 10453.

Solanaceae

***Physalis alkekengi* L.**

B3 Isparta: Uluborlu; northern slopes of Kapıdağ, around Başdeğirmen, meadow, 1350 m., 10.5.1995, G. Kaynak, BULU 10531B.

Scrophulariaceae

***Scrophularia scopoli* (Hoppe ex) Pers.**
var. *burdurensis* (Peşmen) R.R.Mill

B3 Isparta: Uluborlu; Tekketepe, between Özlüce and TV tower, on rocks, 1700 m., 12.8.1997, G. Kaynak, BULU 10128.

***Scrophularia myriophylla* Boiss. & Heldr.**

B3 Isparta: Uluborlu; Kapıdağ, around Başdeğirmen, stony ground, 1100-1400m., 10.6.1995, G. Kaynak, BULU 10531A.

***Veronica trichadena* Jordan & Fourr.**

B3 Isparta: Uluborlu; around İnhisar village, roadside, edge of brook, 1390 m., 24.4.1999, G. Kaynak, BULU 10316.

Acanthaceae

***Acanthus mollis* L.**

B3 Isparta: Uluborlu; around İnhisar village, field, 1390 m., 11.7.1998, G. Kaynak, BULU 10183.

This is the first record for the B grid squares.

Lamiaceae

Teucrium chamaedrys L. subsp. *lydium* O.Schwartz

B3 Isparta: Uluborlu; in the vicinity of Hekimdöndüren, roadside, 1450-1650 m., 24.7.1995, G. Kaynak, BULU 10548.- between Eski Dereköy and Yeni Dereköy, rocky and stony places, 2.8.1995, G. Kaynak, BULU 10553.

Marrubium bourgaei Boiss. subsp. *bourgaei*

B3 Isparta: Uluborlu; Kapıdağ, around Kartal tepesi, stony ridges, 2010 m., 28.7.1995, G. Kaynak, BULU 10450.

In the B grid squares, this endemic species was collected for the first time.

Origanum minutiflorum O.Schwarz & P.H.Davis

B3 Isparta: Uluborlu; between Eski Dereköy and Yeni Dereköy, rocky and stony places, 1250 m., 4.8.1996, G. Kaynak, BULU 10554.

The type and second locality of this species is C3, Antalya. This endemic and locally distributed species is recorded from B grid squares for the first time.

Acinos suaveolens (Sm.) G.Don f.

B3 Isparta: Uluborlu; İnhisar, stony ground, 1390 m., 6.6.1993, G. Kaynak, BULU 7085.- Tekketepe, Dorumoluğu location, mountain steppe, 1650 m., 22.5.1994, G. Kaynak, BULU 8365.

Thymus leucotrichus Hal. var. *austroanatolicus* Jalas

B3 Isparta: Uluborlu; Kapıdağ, Güvercinlik, mountain steppe, 1950 m., 10.6.1994, G. Kaynak, BULU 9194.

T. longicaulis C.Presl. subsp. *chaubardii* (Boiss. & Heldr. ex Rchbf.) Jalas var. *alternatus* Jalas

B3 Isparta: Uluborlu; Kapıdağ, Güden yaylası, rocky slopes, 1950 m., 28.7.1995, G. Kaynak, BULU 10551.

Thymbra spicata L. subsp. *intricata* P.H.Davis

B3 Isparta: Uluborlu; between Yeni Dereköy and Eski Dereköy, dry slopes, stony and rocky places, 1240 m., 4.8.1999, G. Kaynak, BULU 10393.

This endemic species is known from Denizli (C2) and Muğla (C2). This is the first record from the B grid squares.

Mentha longifolia (L.) Hudson subsp. *longifolia*

B3 Isparta: Uluborlu; Kapıdağ, next to water, 3.8.1987, G. Kaynak, BULU 2609.- between Eski Dereköy and Yeni Dereköy, beside water conduits, along road, 2.8.1995, G. Kaynak, BULU 10396.

M. x villosa-nervata Opiz.

B3 Isparta: Uluborlu; Uluborlu centre, garden, 1100 m., 24.5.1994, G. Kaynak, BULU 8400B.

This species has been recorded as a new hybrid for the flora of Turkey and was collected from Kastamonu (A4), Samsun (A6) and Trabzon (A7). This is the first record from the B grid squares.

Ziziphora clinopodioides Lam.

B3 Isparta: Uluborlu; Güden yaylası, mountain steppe, stony ground, 1950 m., 28.7.1993, G. Kaynak, BULU 10552.

Z. taurica Bieb. subsp. *cleonioides* (Boiss.) P.H.Davis

B3 Isparta: Uluborlu; around İnhisar, stony screes, 1380 m., 6.6.1993, G. Kaynak, BULU 7028.

Salvia modesta Boiss.

B3 Isparta: Uluborlu; Tekketepe, around TV tower, alpine steppe, stony places, 1878 m., 7.8.1999, G. Kaynak, BULU 10403.

It was only known from Kayseri (B5). As a result of this study a third locality has been found.

Euphorbiaceae

Euphorbia helioscopia L.

B3 Isparta: Uluborlu; around İnhisar, stony and rocky slopes, 1390 m., 7.7.1996, G. Kaynak, BULU 10557.

Rubiaceae

Putoria calabrica (L.f.) DC.

B3 Isparta: Uluborlu; around İleydağ dam, slopes, 1350 m., 15.7.1997, G. Kaynak, BULU 10038.- around Şalgamlı, stony slopes in arboriculture area, 1260 m., 18.7.1997, G. Kaynak, BULU 10098.

Galium incanum Sm. subsp. *centrale* Ehrend.

B3 Isparta: Uluborlu; 2.5 km. along Başköy to Uluborlu, field, roadside, 1250 m., 17.7.1997, G. Kaynak, BULU 10086.

Rubia peregrina L.

B3 Isparta: Uluborlu; around Eski Dereköy, roadsides, on stone walls, 1300 m., 4.8.1998, G. Kaynak, BULU 10559.

MONOCOTYLEDONES

Liliaceae

Allium flavum L. subsp. *flavum* var. *flavum*

B3 Isparta: Uluborlu; Kapıdağ, Hisarardı, valley, stony river-bed and its surroundings, 1100-1300 m., 1.8.1995, G. Kaynak, BULU 10204.- around Şalgamlı, arboriculture area, 1260 m., G. Kaynak, BULU 10108.

Ornithogalum platyphyllum Boiss.

B3 Isparta: Uluborlu; Tekketepe, Dorumoluğu, stony and rocky ground, 1600 m., 22.5.1994, G. Kaynak, BULU 8385.- in the vicinity of Tekketepe, stony ridges, 21.5.1994, G. Kaynak, BULU 8313.

Ornithogalum lanceolatum Labill.

B3 Isparta: Uluborlu; İnhisar yaylası, damp meadows, 1360 m., 24.4.1999, G. Kaynak, BULU 10315.

Ornithogalum orthophyllum Ten.

B3 Isparta: Uluborlu; above İleydağ dam, stony steppe, 1350 m., 13.6.1992, G. Kaynak, BULU 5712.- in the vicinity of Tekketepe, rocky and stony ground, 21.5.1994, G. Kaynak, BULU 8315.

Gagea fistulosa Ker Gawl.

B3 Isparta: Uluborlu; around Üğünlü, damp meadows, 1350 m., 13.4.1995, G. Kaynak, BULU 10530.