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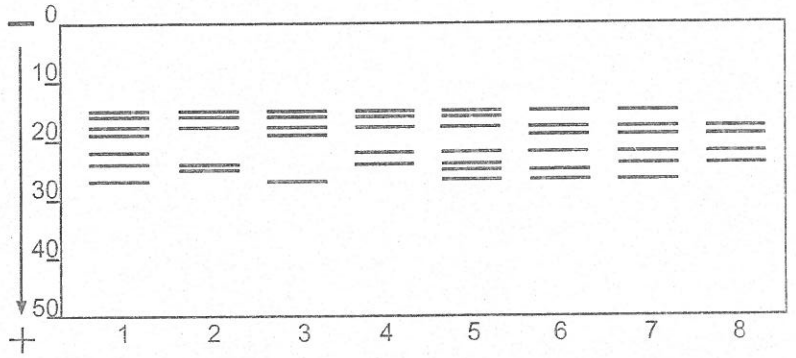
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Ön kapak (Front cover): Isoenzyme phenotypes of NADP–dependent malate dehydrogenase in *Elytrigia repens*, *Psammopyrum pycnanthum* and *Trichopyrum intermedium*. The scale is in mm. The start is at top

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New floristic records for the grid square A 2 (Bursa) and B 3 (Uluborlu-Isparta)

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Abstract

In this article, 7 taxa for the A2 square and 29 taxa for the B3 square in the grid system that is used in flora of Turkey were given as new records. Plant taxa are listed according to in order of flora of Turkey.

Key Words: New square records, A2 Bursa, B3 Isparta, flora of Turkey

A2 (Bursa) ve B3 (Uluborlu-Isparta) kareleri için yeni bitki kayıtları

Özet

Bu makalede, Türkiye florasında kullanılan kareleme sisteminde A2 karesi için 7 ve B3 karesi için 29 takson yeni kayıt olarak verilmiştir. Bitki taksonları, Türkiye florasındaki sıraya göre listelenmiştir.

Anahtar Kelimeler: Yeni kare kayıtları, A2 Bursa, B3 Isparta, Türkiye florası

Introduction

Plant specimens are given as new records, were determined result of evaluated plant materials which were collected from Bursa city in 1998-1999 and from Uluborlu and its enviroment (Isparta) in 1986-2001 years in different vegetation periods.

Material and Methods

All plant species have checked according to related literatures (1-64) 36 taxa have been given as new floristic records. During identification of these specimens "The Flora of Turkey and the East Aegean Islands", vol. 1-11 (20-22) and "Flora Europaea" vol. 1-5 (23) were utilized. In addition some specimens were compared with specimens found in the herbariums of Ankara University (ANK) and Gazi University (GAZİ). All specimens are kept at Herbarium of Uludağ University, Faculty of Science and Art, Department of Biology (BULU).

Findings

SPERMATOPHYTA

ANGIOSPERMAE

DICOTYLEDONES

RANUNCULACEAE

Ranunculus gracilis Clarke

B 3 Isparta: Uluborlu, Kapıdağ, Kalaycılar, stony ground, 1700 m, 11.5.1995, G. Kaynak, BULU 11847.

CISTACEAE

Cistus creticus L.

B 3 Isparta: Uluborlu, İnhisar, Otluseki, slopes, 1300 m, 17.07.1992, G. Kaynak, BULU 7168.

Fumana thymifolia (L.) Verlot var. **viridis** (Ten.) Boiss.

B 3 Isparta: Uluborlu, İleydağ village, roadside, 1200 m, 15.08.2001, G. Kaynak BULU, 14281.

POLYGALACEAE

Polygala monspeliaca L.

B 3 Isparta: Uluborlu, around Eski Dereköy, stony and rocky places, 1200 m, 2.8.1995, G. Kaynak, BULU 12770.

CARYOPHYLLACEAE

Silene conoidea L.

A 2 Bursa: Entry of Cımalıkızık village, meadow, 290 m, 02.05.1999, R. Günay, BULU 10984.

GERANIACEAE

Geranium pusillum Burm fil.

B 3 Isparta: Uluborlu, Tekketepe, around TV tower, stony and rocky ground, 1878 m, 21.5.1994, G. Kaynak, BULU 8340.

G. cinereum Cav. subsp. **subcaulescens** (l'Hérit. ex DC.) Hayek var. **subcaulescens**

B 3 Isparta: Uluborlu, Kapıdağ, Ayçilesi, stony ground, 1900 m, 11.5.1995, G. Kaynak, BULU 9976.

Erodium cicutarium (L.) l'Hérit. subsp. **bipinnatum** (Cav.) Tourlet

B 3 Isparta: Uluborlu, entry of Çapalı village, roadside, edge of field, 1000 m, 14.4.1995, G. Kaynak, BULU 11782.

AMARANTHACEAE

Amaranthus retroflexus L.

A 2 Bursa: Yeşilyayla, roadside, waste land, 160 m, 06.09.1998, R. Günay, BULU, 10795.

RUTACEAE

Dictamnus albus L.

A 2 Bursa: Uludağ road, around Aşiyan, slopes, 450 m, 04.06.1999, R. Günay, BULU 11091.

FABACEAE (LEGUMINOSAE)

Trifolium purpureum Lois. var, **pamphylicum** (Boiss. et Heldr.) Zoh.

B 3 Isparta: Uluborlu, in the vicinity of Hekimdöndüren, arboriculture area, 1450-1650 m, 24.7.1995, G. Kaynak, BULU 12669.

ROSACEAE

Crataegus aronia (L.) Boiss. ex DC. var. **minuta** Browicz

B 3 Isparta: Uluborlu, around İleydağ dam, open places in forest, 1300 m, 15.7.1997, G. Kaynak, BULU 10037, endemic.

APIACEAE (UMBELLIFERAE)

Bupleurum odontites L.

B 3 Isparta: Uluborlu, 2.5 km along Başköy to Uluborlu road, roadsides, fields, 1250 m, 17.7.1997, G. Kaynak, BULU 10079.

Falcaria vulgaris Bernh.

A 2 Bursa: Around Soğanlı botanical park, edge of field, 150 m, 25.07.1999, R. Günay, BULU 11179.

ASTERACEAE (COMPOSITAE)

Scorzonera sublanata Lipschitz

A 2 Bursa: Demirtaş, Bursa to Demirtaş dam, 2. km, slopes, 320 m, 04.04.1999, R. Günay, BULU 10889.

CAMPANULACEAE

Campanula stricta L. var. **alidagensis** Dambolt

B 3 Isparta: Uluborlu, Kapıdağ, Akçay, stony and rocky places, 1000-1300 m, 20.5.1994, G. Kaynak, BULU 10282, endemic.

C. phrygia Jaub. et Spach

B 3 Isparta: Uluborlu, Tekketepe, stony and rocky places, 1600 m, 12.8.1997, G. Kaynak, BULU 10131.

Asyneuma lycium (Boiss.) Bornm.

B 3 Isparta: Uluborlu, Kapıdağ, around Kartal tepesi, steppe, stony places, 2000-2030 m, 12.8.1999, G. Kaynak, BULU 10445, endemic.

The status of this endemic species is VU (Vulnerable) according to the new IUCN categories (24).

PRIMULACEAE

Lysimachia punctata L.

B 3 Isparta: Uluborlu, Tekketepe, between Özbahçe and TV tower, 5. km, stony and rocky slopes, 1530 m, 21.5.1994, G. Kaynak, BULU 8219.

APOCYNACEAE

Trachomitum venetum (L.) Woodson subsp. **sarmatiense** (Woodson) Avetisian

B 3 Isparta: Uluborlu, between Uluborlu dam and İkizoluk, arboriculture area, edge of water, 1150-1350 m, 10.8.1999, G. Kaynak, BULU 10421.

BORAGINACEAE

Lithospermum purpurocaeruleum L.

B 3 Isparta: Uluborlu, Tekketepe, around TV tower, stony and rocky slopes, 1878 m, 24.4.1999, G. Kaynak, BULU 10307.

Buglossoides tenuiflora (L. fil.) Johnston

B 3 Isparta: Uluborlu, entry of Çapalı village, roadsides, edge of fields, 1000 m, 14.4.1995, G. Kaynak, BULU 11779.

Nonea obtusifolia (Willd.) DC.

B 3 Isparta: Uluborlu, Başdeğirmen, around eski santral, meadows, slopes, 1100-1400 m, 11.5.1995, G. Kaynak, BULU 11879 A.

Alkanna pamphylica Hub.-Mor.

B 3 Isparta: Uluborlu, Tekketepe, between Özbahçe and TV tower, 5. km, stony and rocky slopes, 1530 m, 21.5.1994, G. Kaynak, BULU 8235, endemic.

SOLANACEAE

Lycium depressum Stocks

B 3 Isparta: Uluborlu, around Başköy, edge of walls, roadside, 1160 m, 8.8.1999, G. Kaynak, BULU 10412.

SCROPHULARIACEAE

Verbascum afyonense Hub.-Mor.

A 2 Bursa: Maksempınar, between Maksempınar and Unçukuru road, slopes, 350 m, 16.05.1999, R. Günay, BULU 11009, endemic.

The status of this endemic species is EN (Endagered) according to the new IUCN categories (24).

Scrophularia xylorrhiza Boiss. et Hausskn.

B 3 Isparta: Uluborlu, around Eski Dereköy, rocky ground, 1200 m, 2.8.1995, G. Kaynak, BULU 12773.

Chaenorhinum minus (L.) Lange subsp. **minus**

B 3 Isparta: Uluborlu, around Başköy, edge of water, 1180 m, 19.8.2000, G. Kaynak, BULU 11741.

Cymbalaria longipes (Boiss. et Heldr.) Cheval.

A 2 Bursa: Tophane, around Tophane hight school, edge of walls, 180 m, 06.09.1998, R. Günay, BULU 10773.

Veronica thymoides P. H. Davis subsp. **hasandaghensis** M A. Fischer

B 3 Isparta: Uluborlu, Tekketepe, Dorumoluğu location, mountain steppe, rocky places, 1650 m, 21.5.1994, G. Kaynak BULU 8396, endemic.

LAMIACEAE (LABIATAE)

Ajuga chamaepitys (L.) Schreber subsp. **palaestina** (Boiss.) Bornm.

B 3 Isparta: Uluborlu, Kapıdağ, steppe, 1200-1400 m, 16.7.1997, G. Kaynak BULU 10070.

Lamium moschatum Miller var. **rhodium** (Gand.) R. Mill

B 3 Isparta: Uluborlu, between Başköy and Uluborlu, roadsides, edge of field, 1100 m, 23.4.1999, G. Kaynak, BULU 10302, endemic.

RUBIACEAE

Asperula stricta Boiss. subsp. **grandiflora** Schnöb.-Tem.

B 3 Isparta: Uluborlu, Tekketepe, between Özbahçe and TV tower, 5. km, stony and rocky slopes, 1530 m, 21.5.1994, G. Kaynak, BULU 9212, endemic.

MONOCOTYLEDONES

ARACEAE

Arum conophalloides Kotschy ex Schott var. **conophalloides**

B 3 Isparta: Uluborlu, between İleydağ and Gönen, arboriculture area, slopes, 13.6.1992, G. Kaynak, BULU 5685.

IRIDACEAE

Gladiolus italicus Miller

B 3 Isparta: Uluborlu, between İleydağ and Gönen, waste land, 13.6.1992, G. Kaynak, BULU 5711.

POACEAE (GRAMINEAE)

Elymus caninus (L.) L.

B 3 Isparta: Uluborlu, between İleydağ and Çatak, roadside, 1350 m, 26.7.1995, G. Kaynak, BULU 12699.

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