Contribution to the flora of the Rhodopes and the Thracian plain

Antoaneta PETROVA, Diana VENKOVA, Desislava SOPOTLIEVA


Abstract. New chorological data for 21 species are reported. New for the Rhodopes floristic region are 7 taxa, while there are 4 new ones for the Eastern Rhodopes subregion. New for the Thracian plain floristic region are 3 species, other 2 species are confirmed for this region. Two of them, Mediterranean ones (Silene lydia Boiss. and Logfia gallica (L.) Coss. et Germ.), are rare for Bulgaria. Altogether, data on 8 rare or protected species are given.

Key words: Flora, Chorology, Eastern Rhodopes, Thracian plain

Introduction

Data from different field visits in the Eastern Rhodopes and Thracian plain carried out in 2001 – 2004 have been summarized. Reports are included for new and confirmed taxa for the regions as well as data on new localities of rare species. We consider this important with a view to a planned new edition of the Red Data Book of Bulgaria and evaluation of the species according to the criteria of IUCN.

The names of the taxa follow the nomenclature accepted in KOZHUHAROV (1992) and are preceded by the numbers of the taxa from the same publication. Localities are referred to the UTM grid system with 10-km square sides. For some localities geographical coordinates are reported as well. The herbaria samples are kept in the Herbaria of the Institute of Botany (SOM).

Results and discussion

32205. Silene lydia Boiss., 1. LG 82 (AP,VT), SOM 158565 2. LG 93, P, VT), SOM 158933.

Thracian plain. 1. A pasture south of Zhalti bryag village, Haskovo district, June, 28th, 2003, with fruits; 2. A pasture east of Krivo pole village, Haskovo district, June, 29th, 2003, with fruits. In both localities the populations are not numerous, with dispersed structure.

A new species for the region. Silene lydia is a rare and protected species in Bulgaria, up to now known from single localities in the Western (KURTTO, 1985) and Eastern Rhodopes (PETROVA & al., 1999).
15850. *Gypsophylla glomerata* Pallas ex Bieb. MF 28, SC (AP, DV) SOM 158525.
A new species for the Eastern Rhodopes floristic subregion.

Eastern Rhodopes: 1. Kolibarya locality near Ivaylovgrad town, April, 18th, 2002, with flowers; 2. At the edges of an oak forest along the road to Ivaylovgrad, about 4 km south of Dabovets village, April, 12th, 2001, with flowers.
These finds confirm the presence of *Lunaria annua* in the Eastern Rhodopes (ASSENOV, 1970).

21450. *Medicago praecox* DC. LG 80, SC (AP) SOM 158545.
The species was reported for the Eastern Rhodopes from the areas of Gorno Lukovo village and Momchilgrad town (BONDEV & al., 1967), but this information was neglected by KOZHUHAROV (1992), so our data confirm the presence of *Medicago praecox* in the area.

04890. *Bisserula pellecinus* L. LF 89, SC (AP), SOM 15856.
Eastern Rhodopes. A pasture near Dolna Kula village, Kardzhali district, May, 24th, 2003, with fruits.
This Mediterranean element is comparatively rare in Bulgaria. KOZHUHAROV (1992) reported it only for the Struma valley region. It was reported for the Eastern Rhodopes first by BONDEV & LJUBENOVA (1984) in the area of Belopolyane village and this is the second known locality.

34810. *Trifolium dalmaticum* Vis. LG 80, SC (AP), SOM 158529.
Eastern Rhodopes. A pasture near Stari Chal village, Kardzhali district, June, 5th, 2003, with flowers.
A new species for the Rhodopes region.

Eastern Rhodopes. Among shrubs of *Carpinus orientalis* Mill. at Dupkata hill locality near Ivaylovgrad town, April, 12th, 2002, with flowers.
A new species for the Eastern Rhodopes. According to ANCHEV (1992) it is known from North-eastern Bulgaria, Thracian plain, Tundzha hilly plain and Sredna gora region. There are old data from other parts of the Rhodopes: near Bachkovo village (URUMOV, 1913) and near Dobrostan village (VELENOVSKY, 1922) in the Central Rhodopes and Yadenitsa River valley in the Western Rhodopes (URUMOV, 1917). Our findings confirm the presence of the species in the Rhodopes.

Thracian plain. Oak grove alongside the road between Chirpan town and Tsenovo village, Stara Zagora district, April, 25th, 2003, with flowers.
URUMOV (1908) reported the species for the area of the Haskovo town. STOJANOV & STEFANOV (1967) considered it to be distributed throughout the country but DELIPAVLOV (1979) and ANCHEV (1992) gave it only for some regions. Our data confirmed *Viola hirta* for the Thracian plain floristic region.
21015. *Lythrum thymifolia* L. LG 82 (AP), SOM

Thracian Plain. Wet mud in a depressed place near Tsareva polyanaya village, (along the road to Balkan village), Haskovo district, June, 28th, 2003, with flowers.

FRIVALDSKY (1835) reported this species as collected by Hinke and Monolesku from “Rumelien, auf dem Balkan and Rhodope”. With no herbaria specimens or more exact data VELENOSKYI (1891) and STOYANOVA & STEFANOVA (1924) did not include it in Bulgarian flora. DELIPAVLOV (1988) confirmed the species for Bulgaria from the Eastern Rhodopes (near Borislavtsi village in the Arda River valley). Our collection is the first contemporary one for the Thracian plane and also confirms the old data of Frivaldsky. *Lythrum thymifolia* is included in the List of protected species in Bulgaria (STATE GAZETTE, 2002).

13490. *Ferulago campestris* (Besser) Grec. MG 00, SC (AP), SOM 159653; 2. MG 01, SV, SOA 8279.


STOJANOVA & al. (1967) gave the species as locally dispersed in some regions of the country, among them the Eastern Rhodopes, possibly on the basis of the collection cited above. But the Eastern Rhodopes are not mentioned for the species in PEEV (1992) and ASSYOV et al. (2002). So, our collection confirms the species for the Rhodopes.

05420. *Bunium ferulaeaeum* Sibth. et Sm. 1. LF 78, SC (AP), SOM 159652. 2. LF 69, SC (AP), SOM 158894; 3. LG 80, SC (AP), SOM 159640; 4. LG 80, SC (AP), SOM 158496; 5. LG 71, SC (AP), SOM 160900.


The Mediterranean *Bunium ferulaeaeum* is a rare species in Bulgaria (VASILEV, 1984). There are old data from the area of Harmanli town (PODPERA, 1902) and from the area of Momchilgrad town (DAVIDOV, 1948), but there were no samples in Bulgarian Herbaria. Dozens of years afterwards there was no confirmation and the species was considered doubtful for the Bulgarian flora (STOJANOVA & STEFANOVA, 1924; STOJANOVA & al., 1966-67; ASEN, 1991). DELIPAVLOV & CHESHMENZHIEV (1984) confirmed the species for the Bulgarian flora with two localities from the Eastern Rhodopes: Kardzhali town (LG 60) and Dangovo village (LG 61).

Our data show that the species is more widely distributed in the Eastern Rhodopes. The populations are usually small in numbers – only few individuals were found in three of them (localities № 2, 3, 4).

03610.0640. *Asperula aristata* L.f. subsp. *nestia* (Reichb.f.) Ehrend. et Krendl. MG 00, SC (AP), SOM 158526.
A new subspecies for the flora of Eastern Rhodopes, known also from Slavyanka Mt., Pirin Mt., Western and Central Rhodopes (ANCHEV, 1989). The new locality is at a lower altitude than the other known ones.

14480. *Gallium spurium* L. MG 00, SC (AP), SOM 159646.
A new species for the Rhodopes region.

A new species for the Eastern Rhodopes (KOZHUHAROV, 1989; ASSYOV et al., 2002).

A new species for the region. This rare for Bulgaria Mediterranean species (VELCHEV, 1984) according to PEEV (1992) is distributed in the Struma valley, Southern Black Sea coast and Strandzha Mt. floristic regions. There are data also for the Eastern Rhodopes near Delvino village and Momchilgrad (BONDEV & al., 1967) and Tundzha Hilly plain, near Dimitrovche village (VELCHEV, 1984). There is a sample, collected by Krusheva from the Thracian plain: “Along the road between Koren and Malak izvor villages, June, 16th, 1964, (SOA s.n.)”. This locality is not far from the new one.

18060. *Hypochaeris cretensis* (L.) Bory et Chaub. MF 28
Eastern Rhodopes. On slopes along the road from Odrintsi to Mandritsa villages, Ivaylovgrad region, May, 18th, 2001, with flowers. Single individuals.
This Mediterranean species is new for the Rhodopes. It is known only from Struma valley (PEEV, 1992).

21480. *Melica transsilvanica* Schur. 1. MG 00, SC (SH), SOM 155818; 2. LG 80, SC (SH, AP), SOM 157947.
Eastern Rhodopes: 1. At the rocky massive “Patronka” near Madzharovo town, about 500 m alt., May, 28th 2001. 2. In stony places near the road between Studen kladenetz and Potochnitsa villages, Kardzhali district, May, 25th, 2002.
A new species for the Eastern Rhodopes. Visual observations show that it is comparatively common in the Eastern Rhodopes.

19710. *Lemna gibba* L. LF 89, SC (AP).
Eastern Rhodopes. A small water body near a fountain along the road to Dolna Kula village, Kardzhali region, May, 24th, 2003.
This new species for the Rhodopes floristic region is included in the Red Data Book where it is considered “rare” (KOCHEV, 1984).

23760. *Ornithogallum montanum* Cyr. LG 80, SC (AP), SOM 158530.
Eastern Rhodopes. A pasture near Potochnitsa village, Kardzhali district, May, 24th, 2003, with flowers and fruits.
Ornithogallum montanum was first found in the region by YORDANOV and YANEV (1968) but this report was neglected in the later general sources for the Bulgarian flora. Our data confirmed it for the Eastern Rhodopes.

23740. *Ornithogallum fimbriatum* Willd. MF 28, SC (AP, DV, DS), SOM 157941.
Eastern Rhodopes. Among shrubs of *Prunus spinosa* L. near Ivaylovgrad town, April, 17th, 2002, with flowers.
A new species for the Rhodopes region. A Pontic floristic element, known from the eastern part of the country - Black sea coast, North-eastern Bulgaria, Eastern Stara Planina and Tundzha hilly plain (ASYOV & al., 2002).

23570. *Orchis papilionaceae* L. LG 34, SV (DV).
*Orchis papilionaceae* is a rare species in Bulgaria (STANEV, 1984). It is known from the Thracian plain, from a single locality near Harmanly town (SO 100790, DIMITROV & TSONEV, 2001).

References


Authors’ addresses:
Dr. Antoaneta Petrova
Botanical garden, BAS
P.O. Box 664
1000 Sofia
E-mail: petrovabotgar1@abv.bg

Received: 05.04.2004
Contribution to the flora of the Rhodopes and the Thracian plain

Diana Venkova
Botanical garden, BAS
P.O. Box 664
1000 Sofia

Desislava Sopotlieva
Institute of Botany
Acad. Georgi Bonchev Str., 23
1113 Sofia

Принос към флората на Родопите и Тракийската низина

Антоанета ПЕТРОВА, Диана ВЕНКОВА, Десислава СОПОТЛИЕВА

(Резюме)