

CONTRIBUTIONS TO THE KNOWLEDGE OF SOME RARE PLANT SPECIES IN THE FLORA OF ROMANIA

V. CIOCÂRLAN*

Summary: the autor is presenting here 43 rare plant species in the flora of Romania, discovered in various new localities. Most of them have been identified in Dobrudja, being included on different red lists (2, 5, 10). In order to make a distinction among those 3 (three) red lists, concerning their degree of threatening, I have inserted the IUCN indices for every registered plant species here. One can remark a large difference between these red lists, which requires a good collaboration between botanists, to achieve a unitary red list for Romania.

Key words: rare species, chorology, red lists.

The strong anthropogenic influence exerted over the vegetal cover, has induced deeply changings in the taxonomical diversity. These alterations led to a rarefaction, endangering and, even, disappearance of some species. An exactly knowledge of the field situation over those rare, endangered plant species, though require great efforts, numerous field botanists, very skilled florists, represents a key point in order to supervene in an efficacious manner towards the direction of plant conservation.

In this paper, we present 2 (two) plant species and a subspecies, newly identified in the flora of Dobrudja, and a number of 40 rare plant species in the flora of Romania, which are registered in the so-called red lists, identified in other new localities.

Novelties in the Dobrudja flora

1. *Dryopteris carthusiana* (Vill.) H. P. Fuchs (*D. spinulosa* Watt.) – in presented in the whole country (6), but it has nor been signaled out from Dobrudja till now. It has been discovered in Pricopan Mountains, Tulcea county;
2. *Stipa eriocalis* Borbás, is a rare species in the Romanian flora, existing only in the next counties: Alba, Hunedoara, Caraș-Severin, and Mehedinți (8). It has been discovered in the Nature Reserve Alah Bair, near the village of Băltăgești, Constanța county;
3. *Trifolium medium* L. subsp. *banaticum* (Heuffel) Hendrych. This taxon is knowed to exist only surroundings of Cluj-Napoca, Tg. Mureș, and Orșova (9). It has been discovered in Pricopan Mountains, Tulcea county.

Rare plant species in the Romanian flora, registered into the Red Lists, discovered in other new localities

We make a statement that we shall mention only those new localities, without enumeration of the already knew location in the references sources (1, 4, 11, 13). Also, we shall present at each plant species indices IUCN, accordingly of those 3 (three) red lists (2, 5, 10), in order to see those differences between author's opinions, and to draw a conclusion, namely, the need of a good colaboration of some florists which know the field,

* Universitatea de Științe Agronomice și Medicină Veterinară București

making possible a drawing up of a red list, credible and unitary on the level of the Romania, as a country. Using those items of the information from the “*Flora of Romania*” (having older data), must be completed and actualised with the realities from the field studies.

We present, in alphabetical order, the list of some rare plant species in the Romanian flora (on the right, there are new localities, as well the IUCN indices, accordingly Boşcaiu (2), Dihoru (5), Oltean (10).

1. ***Achillea leptophylla*** Bieb. – Tulcea county: Beştepe, Osman Summit – E R
2. ***Alchemilla straminea*** Buser – the Mountains of Rodnei – – R
3. ***Arenaria rigida*** Bieb. – Constanţa county: Ţepeş Vodă – Stâncile Miresii, Năvodari I E R
4. ***Astragalus contortuplicatus*** L. – Dolj county: Calafat; Ialomiţa county: Borcea R V R
5. ***A. hamosus*** L. – Constanţa county: Adamclisi, Lipniţa – – R
6. ***A. ponticus*** Pallas – Tulcea county: Slava Rusă – Hliboca Hill – R V/R
7. ***Bufonia tenuifolia*** L. – Tulcea county: Agighiol – – R
8. ***Bupleurum asperuloides*** Heldr. ex Boiss. – Constanţa county: Alah Bair R V R
9. ***Carex depauperata*** Gooden. – Constanţa county: Canaraua Fetii – R R
10. ***C. secalina*** Wahlenb. – Galaţi county: Hanu Conachi – R(V) R
11. ***Celtis glabrata*** Steven ex Planch. – Constanţa county: the forest of Şipote – E R
12. ***Centaurea gracilentia*** Velen. – Tulcea county: Agighiol – R R
13. ***C. marschalliana*** Spreng. – Tulcea county: Slava Rusă – V V(R)
14. ***Comandra elegans*** (Rochel ex Rchb.) Rchb. – Constanţa county: Ostrov R R R
15. ***Convolvulus lineatus*** L. – Tulcea county: Agighiol R R R
16. ***Coronilla scorpioides*** (L.) Koch – Tulcea county: SE Visterna R R R
17. ***Dianthus campestris*** Bieb. subsp. ***serbanii*** Prodan – Constanţa county: Ostrov R V R
18. ***D. pallens*** Sibth. et Sm. – Giurgiu county: Ulmeni; Tulcea county: Slava Rusă R R R
19. ***Empetrum hermafroditum*** Hagerup – the Mountains of Rodnei, Corongiş Peak – R R
20. ***Ferulago confusa*** Velen. – Tulcea county: Sarica – R V/R

Obs.: following the statements in Fl. Eur., taking over also by Beldie Al., Fl. Rom.

I, this taxon is ***F. sylvatica***, having leaves with setaceous laciniae, is groundless; the two taxa are plainly separated after the ripen fruits.

21. ***Galium verticillatum*** Danth. in Lam. – Tulcea county: Agighiol – E R
22. ***Hornungia petraea*** (L.) Rchb. – Tulcea county: Agighiol – R R
23. ***Iris sintenisii*** Janka – Constanţa county: Canaraua Fetii R R(V) R
24. ***Minuartia adenotricha*** Schischkin – Tulcea county: Agighiol – I R
25. ***M. hybrida*** (Vill.) Schischkin – Tulcea county: Agighiol – K/R R
26. ***M. viscosa*** (Schreber) Schinz et Thell. – Tulcea county: Enisala – R R
27. ***Onobrychis gracilis*** Besser – Constanţa county: Medgidia, Valul lui Traian R R R
28. ***Orchis simia*** Lam. – Constanţa county: Canaraua Fetii – V R
29. ***Peucedanum tauricum*** Bieb. – Tulcea county: Sarica R R R
30. ***Scandix australis*** L. – Tulcea county: Agighiol R V R
31. ***Seseli peucedanifolium*** (Spreng.) Besser – Tulcea county: Agighiol – R –
32. ***Silene compacta*** Fischer – Tulcea county: Beştepe, Caugagia – V R
33. ***Stachys angustifolia*** Bieb. – Constanţa county: Ţepeş Vodă – Stâncile Miresii R R R
34. ***Stipa eriocaulis*** Borbás (fore-cited) – R K
35. ***S. ucrainica*** P. Smirnov – Tulcea county: Culmea Pricopan – V R
36. ***Trigonella gladiata*** Steven ex Bieb. – Constanţa county: Alah Bair, Canaraua Fetii R R R
37. ***Veronica bachofenii*** Heuffel – the Mountains of Lotrului - Valea Latoriței, Valea Argeşului near the Lake of Vidraru – R R
38. ***Veronica multifida*** L. subsp. ***capsellicarpa*** (Dubovik) A. Jelen – Tulcea county: Agighiol; Constanţa county: Gura Dobrogei – V R
39. ***Vicia dalmatica*** A. Kerner – county Tulcea, Pricopan Summit; Constanţa county: Canaraua Fetii R V R

40. **Amaranthus x theveneau** Deg. et Thell. (*A. deflexus* x *crispus*), known only from Banat and Transilvania; it has been discovered also in Oltenia, at Calafat.

All of these plant species are inserted into the herbarium of Univ. of Agronomical Sciences, București (BUAG).

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