



## Distribution of *Carex distachya* in Albania

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**ABSTRACT:** *Carex distachya* Desf., with more or less continuous range in the Mediterranean Basin, was apparently missing from Albania. Following several years of field studies the authors managed to record the occurrence of *C. distachya* in Albania and to outline the distribution range of the species in the country.

**Key words:** Mediterranean, *Carex*, oak forest

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### INTRODUCTION

*Carex distachya* Desf. belongs to subgen. *Indocarex* Baillon which has only two members in Europe: *C. distachya* and *C. phyllostachys* C. A. Meyer. While *C. phyllostachys* is mainly a Caucasian species only with scattered occurrences in the Balkans, *C. distachya* is a Mediterranean species, distributed in S Europe and around the Mediterranean Sea.

*C. distachya* is distributed in the Mediterranean Basin with an emphasis on the West, where it can be found even far from the Mediterranean Sea, also at higher altitudes (BATTANDIER & TRABUT 1895). Eastwards, it is more or less restricted to the surroundings of the sea and lower altitudes (DEGEN 1936, VÁLEV 1964, ASSYOV & PETROVA 2006) and is missing from the easternmost parts of the Mediterranean area. It is known from each South European countries at the Mediterranean Sea (CHATER 1980) and even from Switzerland (HESS *et al.* 1965), from the western part of North Africa (BATTANDIER & TRABUT 1895; CUÉNOD 1954, JURY *et al.* 2010) and also from Egypt in NE Africa (GREUTER 2009) and from W and S Turkey (DAVIS 1985). Its occurrence is doubtful in Cyprus (MEIKLE 1985) and likely to be erroneous in Serbia (JOVANOVIĆ-DUNJIĆ 1976), and despite the cited (e.g. BARCELÓ 1977) earlier record of Haussknecht (in BOISSIER 1884) it is missing from the checklists of Middle East regions (FIO 2003-, FSOL 2005-) because Haussknecht's record "Alexandrette" refers to İskenderun in Turkey.

Despite its presence in neighbouring Mediterranean countries, and the more or less continuous area in the European Mediterranean, there were no records from Albania (DEMIRI 1983, VANGJELI 2000, 2003), so its occurrence there was questionable (CHATER 1980).

According to the literature, *Carex distachya* can occur in various habitats in the colline region. It is a characteristic species of *Quercus ilex* communities from Spain to Greece (BARBERO & LOISEL 1983, BARBERO *et al.* 1992), occurring in *Quercus frainetto* Ten. stands (ABBATE *et al.* 1990), forest-grassland mosaics (DÍAZ-VILLA *et al.* 2003), shrublands (ACHHAL EL KADMIRI *et al.* 2004), as well as in disturbed grounds such as "anthropogenic steppe" (FANELLI 1998) and roadsides (DEMIR *et al.* 2008), and occasionally even in moist habitats (KJELLQVIST & LÖVE 1963, LÖVE & KJELLQVIST 1973, GRADSTEIN & SMITTENBERG 1977).

Because of the very special western coast (extended sand dune and flysch areas) of Albania which is different from the predominantly limestone coast of Croatia, Montenegro and Greece in the Balkans, our research reported here was to establish whether the species is really missing from Albania because of the different coastal habitats or whether it is an overlooked species there.

### MATERIAL AND METHODS

We aimed to explore the potentially suitable habitats for *C. distachya* in Albania, to confirm the occurrence of the

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species there and to outline its vertical and horizontal distribution in the country.

Altogether, 12 field trips were organized to various parts of Albania between 2004 and 2010 (Map 1), from March to June, in the known flowering and fruiting period (PIGNATTI 1982, PIQUEMAL & GAMISANS 2007) of the species. The potential habitats of *Carex distachya* were checked and, eventually, other habitats were studied. The locations of occurrences of the species were recorded with GPS (Garmin eTrex Legend from 2004 to 2006, Garmin Venture cx from 2007 to 2009 and Garmin eTrex Legend HCx in 2010). Voucher specimens were deposited in BP (Hungarian Natural History Museum, Budapest, Hungary).

## RESULTS

During the field trips of the last 6 years, *C. distachya* was discovered and collected or observed, altogether, in 56 localities in Albania (Appendix 1, Map 1). The species proved to be distributed in the western hilly and coastal area of Albania from the Greek border to the Montenegrin border, but it was very rare or apparently missing from the lowlands (Map 1). Altogether 35 voucher specimens from different localities were deposited in BP.

The species proved to be distributed from sea level up to above 1000 m (the highest occurrence was at 1061 m a.s.l.), but most of the localities found were under 500 m a.s.l.

Most of the occurrences were on limestone, but it could also be found on flysch and on sandy places by the seashore.

The plant occurred in various habitats. It could be found in oak wood and groves (*Quercus ilex*, *Quercus macrolepis*), mixed polydominant forests, in stone pine (*Pinus pinea*) plantations and olive groves, as well as in different scrublands, in cemeteries, by roadsides, on shady rocks and rocky grasslands.

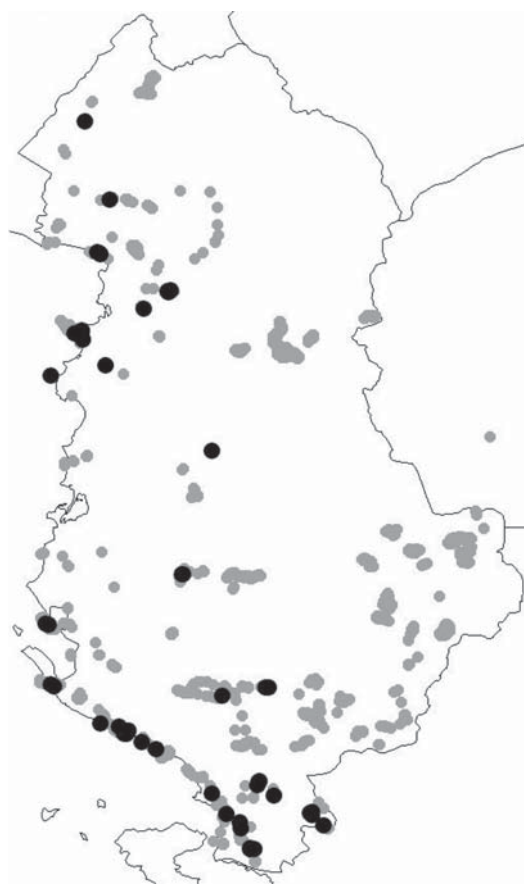
## DISCUSSION

*C. distachya* was an overlooked species of Albania, which had no former records from the country and was missing from any Albanian flora monographs.

As a result of the authors' mapping work presented here, the occurrence of *Carex distachya* was confirmed in Albania, and it proved to be a widely distributed but moderately rare taxon in the hilly regions (cf. DEGEN 1936: 588, PIGNATTI 1982, ASSYOV & PETROVA 2006) of the western third of Albania from the south to the north. Our records filled the gap in and fit to the distribution of the species in the Balkan Peninsula and in the Mediterranean, providing continuity between the Greek and Croatian–Montenegrin distributional area.

Because of the extended use of the landscape of the lowland and hilly areas of Albania, *C. distachya* chiefly occurs in various derivatives of oak woods, which fit to the known coenology on the species from other parts of its area (BARBERO & LOISEL 1983, BARBERO *et al.* 1992, DÍAZ-VILLA *et al.* 2003, ACHHAL EL KADMIRI *et al.* 2004). As an originally woodland species it needs sheltered plots, which hide it from grazing animals and direct sunshine.

In Albania, the species characteristically stands upon limestone, but more rarely it was also found on flysch and sand. It usually preferred shady, sheltered habitats, but occasionally it occurred on exposed limestone rocks or rocky grassland (cf. FANELLI 1998). *C. distachya* in Albania is a colline species only with a few populations above 500 m, but this may be in correlation with the abrupt transition of the relatively low hilly region (0–500 m) to the mountain region (above 1500–2000 m) of the middle part of Albania (cf. DEGEN 1936). The latitudinal range of *C. distachya* is similar to that in Italy (0–1000 m, PIGNATTI 1982), which is between the strict range (0–400 m) at the eastern part (ASSYOV & PETROVA 2006) and a wider range (sea level to the mountains) in the western part (BATTANDIER & TRABUT 1895).



**Map 1.** Distribution map of *Carex distachya* in Albania

- black dots: known localities of *Carex distachya*
- grey dots: visited localities without *Carex distachya*

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**Appendix 1.** List of localities of *Carex distachya* in Albania

1. District of Berat (Rrethi i Beratit), at the foot of Mt. Shpirag, between villages Paffal and Galinë; in a cemetery; 40.69717°N, 19.8729°E, 472 m a.s.l. coll.: Z. Barina, D. Pifkó, R. Gógh, Z. Drahos, D. Schmidt; 21.04.2008; Nr. 13334
2. District of Berat (Rrethi i Beratit), on the eastern slope of Mt. Shpirag, above village Galinë; in low scrubland, on limestone; 40.69669°N, 19.86995°E, 578 m a.s.l. coll.: Z. Barina, D. Pifkó, R. Gógh, Z. Drahos, D. Schmidt, F. Pósa; 21.04.2008; Nr. 13314
3. District of Delvina (Rrethi i Delvinës), c. 1.4 km east of village “Kronjgi”, east of storage-lake “liqeni i Bisticës”; at the edge of mixed deciduous forest; 39.91726°N, 20.19267°E, 234 m a.s.l. coll.: Z. Barina, D. Pifkó, A. Csóka, B. Pintér; 20.04.2007; Nr. 11166
4. District of Delvinë (Rrethi i Delvinës), Mali i Gjerë, on the southern slope of 1331 m high mountain above Delvinë; in a rocky forest fragment, on limestone; 39.95248°N, 20.13181°E, 494 m a.s.l. coll.: Z. Barina, D. Pifkó; 01.05.2009; Nr. 14978
5. District of Delvinë (Rrethi i Delvinës), Mali i Gjerë, on the southern slope of 1331 m high mountain above Delvinë; in rocky grassland, on limestone; 39.96459°N, 20.13833°E, 865 m a.s.l. obs.: Z. Barina, D. Pifkó; 01.05.2009; obs.
6. District of Delvinë (Rrethi i Delvinës), Mali i Gjerë, on the southern slope of 1331 m high mountain above Delvinë; in rocky grassland, on limestone; 39.96761°N, 20.14147°E, 939 m a.s.l. coll.: Z. Barina, D. Pifkó; 01.05.2009; Nr. 14999
7. District of Durrës (Rrethi i Durrësit), at the coast of the Adriatic Sea south of village Shënpjetër; in closed *Pinus pinea* woodland; 41.52363°N, 19.51995°E, 12 m a.s.l. coll.: Z. Barina, L. Lókök, D. Pifkó; 27.04.2009; Nr. 14765
8. District of Durrës (Rrethi i Durrësit), between villages Shetaj and Shënpjetër; in scrubland by the roadside; 41.55232°N, 19.51713°E, 127 m a.s.l. coll.: Z. Barina, L. Lókök, D. Pifkó; 26.04.2009; obs.
9. District of Durrës (Rrethi i Durrësit), between villages Shetaj and Shënpjetër; in scrubland by the roadside; 41.5551°N, 19.51593°E, 154 m a.s.l. coll.: Z. Barina, L. Lókök, D. Pifkó; 26.04.2009; Nr. 14758
10. District of Durrës (Rrethi i Durrësit), Bishti i Pallës; in dry grassland, on flysch; 41.39455°N, 19.40829°E, 20 m a.s.l. coll.: Z. Barina, L. Lókök, D. Pifkó; 27.04.2009; obs.
11. District of Durrës (Rrethi i Durrësit), region Ishem, on the slope of 181 m high hill N of village Manzë, in an olive grove, on flysch; 41.43149°N, 19.6008°E, 68 m a.s.l. coll.: Z. Barina, D. Pifkó; 25.04.2009; Nr. 14694
12. District of Durrës (Rrethi i Durrësit), west of village Shënpjetër, at the foot of hill Marashi (132.1 m), at the coast of the Adriatic Sea; in scrubland; 41.54304°N, 19.49593°E, 1 m a.s.l. coll.: Z. Barina, L. Lókök, D. Pifkó; 26.04.2009; Nr. 14720
13. District of Durrës (Rrethi i Durrësit), west of village Shënpjetër, on the southern slope of hill Marashi (132.1 m), near the coast of the Adriatic Sea; in scrubland; 41.54531°N, 19.49331°E, 82 m a.s.l. coll.: Z. Barina, L. Lókök, D. Pifkó; 26.04.2009; obs.
14. District of Elbasan (Rrethi Elbasanit), c. 2.5 km SE of village Pajengë, near the Elbasan-Tiranë main road (SH3); in *Ostrya carpinifolia*-shrubland, on limestone; 41.13198°N, 19.97386°E, 710 m a.s.l. coll.: Z. Barina, D. Pifkó; 22.04.2008; Nr. 13348
15. District of Gjirokastër (Rrethi i Gjirokastrës), between village Klishar and the peak of Mt. “Turla e Karias” (1332.1 m); in grazed scrubland, on limestone; 39.84873°N, 20.324°E, 1061 m a.s.l. coll.: Z. Barina, D. Pifkó; 02.05.2009; obs.
16. District of Gjirokastër (Rrethi i Gjirokastrës), west of village Klishar, above the valley of temporary brooklet Shkolave; in *Quercus coccifera* scrubland, on limestone; 39.85624°N, 20.31696°E, 933 m a.s.l. coll.: Z. Barina, D. Pifkó; 02.05.2009; obs.
17. District of Gjirokastër (Rrethi i Gjirokastrës), west of village Klishar, above the valley of temporary brooklet Shkolave; in *Quercus coccifera* scrubland, on limestone; 39.85698°N, 20.32016°E, 846 m a.s.l. coll.: Z. Barina, D. Pifkó; 02.05.2009; obs.
18. District of Gjirokastër (Rrethi i Gjirokastrës), west of village Klishar, above the valley of temporary brooklet Shkolave; in rocky scrubland, on limestone; 39.85971°N, 20.32364°E, 714 m a.s.l. coll.: Z. Barina, L. Lókök, D. Pifkó; 02.05.2009; Nr. 15029
19. District of Gjirokastër (Rrethi i Gjirokastrës); c. 300 m S of village Sotirë in the valley of brook “përroi i Sotirës”; in rocky grassland, on limestone; 39.81305556°N, 20.36436111°E, 570 m a.s.l. coll.: Z. Barina, D. Pifkó, B. Pintér; 26.03.2010; Nr. 16500
20. District of Kurbin (Rrethi i Kurbinut), above Laç, near the church “Kisha e Laçit”; in *Ostrya* and *Quercus* mixed shrub forest, on limestone; 41.63089°N, 19.73321°E, 342 m a.s.l. coll.: Z. Barina, D. Pifkó; 25.04.2009; Nr. 14684
21. District of Lezhë (Rrethi i Lezhës), Mali i Rrencit, near the peak of Mt. Burga (262 m), above village Shëngjin; in open oak woodland, on limestone; 41.82453°N, 19.58279°E, 257 m a.s.l. coll.: Z. Barina, L. Lókök, D. Pifkó; 22.04.2009; Nr. 14605
22. District of Lezhë (Rrethi i Lezhës), Mali i Rrencit, near

- the peak of Mt. Burga (262 m), above village Shëngjin; in open oak woodland, on limestone; 41.8254°N, 19.58082°E, 249 m a.s.l. coll.: Z. Barina, D. Pifkó; 22.04.2009; obs.
23. District of Lezhë (Rrethi i Lezhës), Mali i Rrencit, west of the peak of Mt. Burga (262 m), above village Shëngjin; in grazed open oak woodland, on limestone; 41.82908°N, 19.57273°E, 258 m a.s.l. coll.: Z. Barina, D. Pifkó; 22.04.2009; obs.
  24. District of Mat (Rrethi i Matit), Mali i Skënderbeut, on the northern foothills of Mt. "maja e Mëllezit", near village Shkopet; in *Ostrya carpinifolia* scrubland; 41.69088°N, 19.81965°E, 210 m a.s.l. coll.: Z. Barina, L. Lókök, D. Pifkó; 24.04.2009; obs.
  25. District of Mat (Rrethi i Matit), Mali i Skënderbeut, on the northern foothills of Mt. "maja e Mëllezit", near village Shkopet; in *Ostrya carpinifolia* scrubland; 41.69374°N, 19.82081°E, 87 m a.s.l. coll.: Z. Barina, L. Lókök, D. Pifkó; 24.04.2009; Nr. 14650
  26. District of Mat (Rrethi i Matit), Mali i Skënderbeut, on the northern foothills of Mt. "maja e Mëllezit", near village Shkopet; in *Quercus coccifera* scrub-forest; 41.68927°N, 19.822°E, 329 m a.s.l. coll.: Z. Barina, D. Pifkó; 24.04.2009; obs.
  27. District of Mat (Rrethi i Matit), Mali i Skënderbeut, on the northern foothills of Mt. "maja e Mëllezit", near village Shkopet; on limestone rocks; 41.69065°N, 19.82204°E, 270 m a.s.l. coll.: Z. Barina, D. Pifkó; 24.04.2009; obs.
  28. District of Mat (Rrethi i Matit), Mali i Skënderbeut, on the northern foothills of Mt. "maja e Mëllezit", near village Shkopet; on limestone rocks; 41.69097°N, 19.82292°E, 277 m a.s.l. coll.: Z. Barina, D. Pifkó; 24.04.2009; obs.
  29. District of Mirditë (Rrethi i Mirditës), Mts. Kulmja i Dervenit, above the coffer-dam of Shkopet, between the center of Ferrë-Shkopet and the tunnel; in scrubland, on limestone; 41.69622°N, 19.82826°E, 109 m a.s.l. coll.: Z. Barina, D. Pifkó; 24.04.2009; Nr. 14662
  30. District of Përmet (Rrethi i Përmetit), Dhëmbeli Mts., on the northern slope of Mount "maja e Brezhanit" (1279.3 m), above the valley of river Vjosë, c. 2.1 km WSW of town Këlcyrë; in scrubland; 40.29711°N, 20.17355°E, 367 m a.s.l. coll.: Z. Barina, D. Pifkó, R. Gógh, Z. Drahos; 19.04.2008; obs.
  31. District of Përmet (Rrethi i Përmetit), Dhëmbeli Mts., on the northern slope of Mount "maja e Brezhanit" (1279.3 m), above the valley of river Vjosë, c. 2.8 km WSW of town Këlcyrë; in scrubland; 40.29575°N, 20.1627°E, 194 m a.s.l. coll.: Z. Barina, D. Pifkó, D. Schmidt, R. Gógh, Z. Drahos; 19.04.2008; Nr. 13261
  32. District of Sarandë (Rrethi i Sarandës), next to village Fakar; in grassland, on flysch; 39.82307°N, 20.07003°E, 17 m a.s.l. coll.: Z. Barina, L. Lókök, D. Pifkó; 30.04.2009; Nr. 14921
  33. District of Sarandë (Rrethi i Sarandës), next to village Vurgu i Ri (Qenurio), between the village and the cemetery; in an oak grove, on flysch; 39.80155°N, 20.07641°E, 68 m a.s.l. coll.: Z. Barina, L. Lókök, D. Pifkó; 30.04.2009; Nr. 14974
  34. District of Sarandë (Rrethi i Sarandës), on the northern slope of Mount "mali i Lasaresë" (584 m), c. 2.5 km S of village Bubari; in dry grassland; 39.92297°N, 19.97261°E, 218 m a.s.l. coll.: Z. Barina, D. Pifkó, D. Schmidt, R. Gógh; 17.04.2008; Nr. 13219
  35. District of Sarandë (Rrethi i Sarandës); in the side valley of brooklet "Rrushkull", c. 2 km SW of village Vagalat; in *Ostrya* forest, dominated by *Ruscus aculeatus*; 39.72907°N, 20.10625°E, 493 m a.s.l. coll.: Z. Barina, D. Pifkó, B. Pintér; 25.03.2010; obs.
  36. District of Sarandë (Rrethi i Sarandës); in the valley of brooklet "Rrushkull", c. 2 km SW of village Vagalat; on shady limestone rocks; 39.73131°N, 20.10934°E, 367 m a.s.l. coll.: Z. Barina, D. Pifkó, B. Pintér; 25.03.2010; obs.
  37. District of Sarandë (Rrethi i Sarandës); on the ridge of the 598.6 m high mountain c. 2 km S of village Vagalat; in rocky grassland, on limestone; 39.72674°N, 20.12365°E, 562 m a.s.l. coll.: Z. Barina, D. Pifkó, B. Pintér; 25.03.2010; Nr. 16476
  38. District of Sarandë (Rrethi i Sarandës); S part of town Sarandë, on the SW slope of Mt. mali i Lëkurësit (261 m); in rocky grassland, on limestone; 39.85138°N, 20.0248°E, 47 m a.s.l. coll.: Z. Barina, D. Pifkó, B. Pintér; 24.03.2010; Nr. 16431
  39. District of Shkodër (Rrethi i Shkodrës), c. 500 m north of village Mjedë, in the valley of river "Drin", on limestone rock; 42.0137°N, 19.61633°E, 43 m a.s.l. coll.: Z. Barina, D. Pifkó, A. Csóka, B. Pintér; 12.04.2007; Nr. 10768
  40. District of Shkodër (Rrethi i Shkodrës); above the gorge of brook përroi i Thatë at the village Dedaj by the roadside; 42.29181°N, 19.52975°E, 450 m a.s.l. coll.: Z. Barina, D. Pifkó, B. Pintér; 30.03.2010; Nr. 16634
  41. District of Tepelenë (Rrethi i Tepelenës); Griba Mountains (Mali i Gribës), c. 2.5 km south of town Tepelenë, between the "Bridge Bënçë and the prison of Tepelenë, in the valley of river Bënçë; in a limestone gorge; 40.26843°N, 20.00964°E, 162 m a.s.l. coll.: Z. Barina, G. Király; 04.05.2005; Nr. 7732
  42. District of Vlorë (Rrethi i Vlorës), above bay Porto Palermo, c. 4.3 km W of Qeparo, on the SW slope of Mt. Gemi (540.7 m); in a *Quercus macrolepis* wood; 40.07905°N, 19.7776°E, 149 m a.s.l. coll.: Z. Barina, D. Pifkó, D. Schmidt, R. Gógh, Z. Drahos, F. Pósa; 17.04.2008; Nr. 13203



43. District of Vlorë (Rrethi i Vlorës), at the foot of Mts. “rrëza e Kanalit”, c. 3.1 km west of village Palasë; at the seashore; 40.17125°N, 19.58298°E, 3 m a.s.l. coll.: Z. Barina, R. Gógh; 16.04.2008; Nr. 13189
44. District of Vlorë (Rrethi i Vlorës), between village Ilias and manastir Shën Theodor; in macchia; 40.13467°N, 19.6729°E, 205 m a.s.l. coll.: Z. Barina, D. Pifkó; 29.04.2009; obs.
45. District of Vlorë (Rrethi i Vlorës), between village Ilias and manastir Shën Theodor; in an olive grove; 40.13318°N, 19.66689°E, 168 m a.s.l. coll.: Z. Barina, D. Pifkó; 29.04.2009; obs.
46. District of Vlorë (Rrethi i Vlorës), between village Ilias and manastir Shën Theodor; in an olive grove; 40.13369°N, 19.67269°E, 205 m a.s.l. coll.: Z. Barina, D. Pifkó; 29.04.2009; obs.
47. District of Vlorë (Rrethi i Vlorës), c. 1.5 km W of village Zvërnec, on the island of “Manastir Zvërnec” in lake Liqen i Nartës; in pine forest; 40.51757°N, 19.40133°E, 40 m a.s.l. coll.: Z. Barina, D. Pifkó, D. Schmidt, R. Gógh, Z. Drahos, F. Pósa; 14.04.2008; Nr. 13103
48. District of Vlorë (Rrethi i Vlorës), c. 1.5 km W of village Zvërnec, on the island of “Manastir Zvërnec” in lake Liqen i Nartës; in scrubland at the shore; 40.51876°N, 19.39915°E, 4 m a.s.l. coll.: Z. Barina, D. Pifkó, D. Schmidt, R. Gógh, Z. Drahos, F. Pósa; 14.04.2008; Nr. 13109
49. District of Vlorë (Rrethi i Vlorës), c. 2.5 km WNW of village Zvërnec; in salt marsh by the seashore; 40.52335°N, 19.39035°E, 1 m a.s.l. coll.: Z. Barina, D. Pifkó, D. Schmidt, R. Gógh, Z. Drahos, F. Pósa; 13.04.2008; Nr. 13012
50. District of Vlorë (Rrethi i Vlorës), c. 500 m NE of village Ilias, near the valley of brooklet “përroi i Ngipesë”; in scrubland; 40.14498°N, 19.68013°E, 327 m a.s.l. coll.: Z. Barina, D. Pifkó, D. Schmidt, R. Gógh; 17.04.2008; obs.
51. District of Vlorë (Rrethi i Vlorës), c. 600 m ENE of village Ilias, near the valley of brooklet “përroi i Ngipesë”; in scrubland; 40.14626°N, 19.67962°E, 337 m a.s.l. coll.: Z. Barina, D. Pifkó, D. Schmidt, R. Gógh; 17.04.2008; obs.
52. District of Vlorë (Rrethi i Vlorës), Mali i Çikës, c. 500 m east of village Ilias, in the limestone gorge of brook “përroi i Ngipesë”; 40.14088°N, 19.67747°E, 203 m a.s.l. coll.: Z. Barina, D. Pifkó, A. Csóka, B. Pintér; 17.04.2007; Nr. 11061
53. District of Vlorë (Rrethi i Vlorës), Mts. “Bishti i Malit”, c. 5.0 km W of town Orikum; in polydominant forest; 40.30261°N, 19.41842°E, 271 m a.s.l. coll.: Z. Barina, D. Pifkó, D. Schmidt, R. Gógh, Z. Drahos, F. Pósa; 15.04.2008; Nr. 13129
54. District of Vlorë (Rrethi i Vlorës), Mts. “Bishti i Malit”, c. 5.6 km W of town Orikum; in *Quercus ilex* forest, in a limestone gorge; 40.30945°N, 19.40942°E, 283 m a.s.l. coll.: Z. Barina, D. Pifkó, D. Schmidt, R. Gógh, Z. Drahos, F. Pósa; 16.04.2008; Nr. 13181
55. District of Vlorë (Rrethi i Vlorës), Mts. Mali i Çikës, in the valley below Mt. “Maja e Pandejmonit” (805.8 m), north of village Dhërmi; in dry grassland, on limestone; 40.15932°N, 19.64773°E, 271 m a.s.l. coll.: Z. Barina, L. Lökös, D. Pifkó; 29.04.2009; Nr. 14845
56. District of Vlorë (Rrethi i Vlorës); plazh i Livadhit, near village Livadh; on a sandy beach; 40.10585°N, 19.72909°E, 0 m a.s.l. coll.: Z. Barina, D. Pifkó, B. Pintér; 27.03.2010; Nr. 16570

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## Botanica SERBICA



### REZIME

## Rasprostranjenje *Carex distachya* u Albaniji

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*Carex distachya* Desf. čiji areal manje više kontinualno obuhvata basen Mediterana nije bila poznata za Albaniju. Nakon više godina istraživanja autori su uspeli da nadju ovu vrstu i u Albaniji te da utvrde njeno rasprostranjenje u ovoj zemlji.

**Ključne reči:** Mediteran, *Carex*, hrastove šume