## New localities of some rare species of Uredinales in Poland

## AGATA WOŁCZAŃSKA

Maria Curie-Skłodowska University, Institute of Biology, Department of Botany, Akademicka 19, 20-033 Lublin, Poland

Wolczańska A.: New localities of some rare species of Uredinales in Poland. Acta Mycol. 29 (1): 95-98, 1994.

The paper presents new localities of some rare species of Uredinales. They were collected in southeastern part of Poland.

Since 1990 investigations on the occurrence of microscope fitopathogenic fungi have been undertaken in Doly Jasielsko-Sanockie and in Beskid Niski mountains. A great many herbarium specimens have been collected, which are now being identified and which will be gradually published.

Among the collected trust fungi, the most interesting species identified were, as a follows: Paccinia encidentear on Cirsian of enzema P. Aetaratiae on Cardanine bubliera, P. deschampsiae on Deschampsia caseptions, P. vulpinae on Cares vulpina, Pacciniastrum gutatumon Galium mollogo, Uromyese somolidie on Onnenia serensits. These species are known to occur only in few localities. Paccinia caricida found on Cares suprina and Collected in Wyzma Matepotka has been included in the index.

The data regarding the occurrence of the fungi have been based on available literature (D a n i l k i e w i c z, 1985, 1987; M a j e w s k i, 1977, 1979; M u l e nk o, 1988; R o m a s z e w s k a - S a l a t a, 1982; R o m a s z e w s k a - S a l a t a, M u l e n k o, 1983).

## COLLECTED SPECIES AND THEIR LOCALITIES

Puccinia caricicola Fuck, on Carex supina Willd. ex Wahlenb.: Podgrodzie near Čmielów, on a steppe slope (leg. et det J. R o m a s z e w s k a - S a l a t a): VIII. The fungus has been recorded so far in Poland only in Góry Pieprzowe mountains near Sandomierz (Fig. 1 A).



Only Uredinia can be found on the attacked specimens. Subsequently urediniospores of the size 17-30 x 14-20 µm develop and few amfispores (Pl. 1, fot. 4 a, b).

Fig. 1. A – The occurrence of Puecinia caricicala Fueck on Cares supina (1, 2) and Puecinia dentariae (Alts, et Schw.) Fueck. on Carelamine bulhfera (3, 4) 1, 3 – fint localities; 2, 4 – new localities B – The occurrence of Uromyces consolid Pass. 1, 2 – on Onosia varsuits 5 – on Chassia spinona

Puccinia cnici-oleracei Pers. ex Desm. on Cirsium oleraceum (L.) Scop.: Rymanów a side of a drainage ditch; VIII. The fungus on the host has so far been reported from: Beech Forest near Srzezein, Skonal Lake near Giżycko, Reserve Czartowe Pole (Roztocze) and Ustrzyki Górne.

Puccinia dentariae (Alb. et Schw.) Fuck. on Cardamine bulbifera (L.) Crantz: Iwonicz Zdrój, the slope of Góra Krzemionki (= Przedziwna), in Dentario glandulosae--Fagetum; V. The fungus has been noted only in Kalwaria Zebrzydowska and in Polonina Caryńska (Bieszczady) (Fig. 1 A).

The collected specimens are strongly attacked and deformed. Telia form very big clusters (up to 8 cm long), mainly on the stem and leaf petioles, and smaller ones on the leaves (Pl. 1, fot. 1 a, b). Teliospores are a bit larger than those described in literature and are respectively; 32-51 x 14-18 µm (Pl. 1, fot. 2).

Puccinia deschampsiae Arth, on Deschampsia caceptiors (L.) Beauv. Rymanow, in a meadow association belonging to the class Molino-Arhenathered; X. Other localities: the surroundings of Szczecia and Stargard, Puszcza Kampinotak Foresa, Mala Wieś n. Grójec, Babia Góra, Pieniny mountains, Bieszczady Zachodnie mountains, Wostzenice (the valley of the River Krana), Woroblin (the valley of the middle part of the River Bug) and Lęczna-Włodawa Lake District. Only telia were found on the collected leaves. Teilooppers are slightly larger than those described in literature and are respectively: 35-58 x 14-20 µm (Pl. 1, fo. 5).



Plate I, 1 a, b – Telia of Puccinia dentariae (Alb. et Schw.) Puck. on steam and leaf of Cardamine bulbifera, 2 – Teliospores of Puccinia dentariae (Alb. et Schw.) Puck, 3 – Uredninospores of Uromyces ononidis Pass. on Ononis arvensis; 4 – Spores of Puccinia caricicola Fuck. on Cares supina: a – uredninospores, b – an antensis proc. 5 – Teliospores of Puccinia deschampisae Anth. on Deschampisa caseptora

- Puccinia vulpinae Schroet. on Carex vulpina L.: Rymanów, the side of a drainage ditch; VIII. The fungus has also been noted in the surroundings of Legnica, Wrocław and Warszawa, Ludwikowo, Samostrzel by the River Noteć, in Białowieża Forest and Międzyrzee Podlaski.
- Puccinitatrum gutatum (Schroct.) Hyl. Jarst, et Nandf. on Galium mollugo L.: Rymanów, the side of a drainage ditch; VIII. Other localities: Beech Forest n. Szczecin, in the vicinity of Wrocław, Warszawa and Olsztyn, in Załkowiec Śląskie, Miechowiec, Zakopane, Pieniny mountains, Kamień n. Mrągów, Drohiczyn, Mielnik, Białowieża Forest and Puszcza Knyszyńska Forest.
- Uromyces ononidis Pass. on Ononis arvensis L.: Rymanów, in Molinio-Arrhenatheretea; VIII. The fungus on this host has been recorded in the vicinity of Międzyrzec Podlaski. In Poland it also occurs on Ononis spinosa L. only in Lomianki Górne in Puszcza Kampinoska Forest (Fig. 1 B).

The size of the urediniospores on the collected specimens ranged from 19.5-26 to 18.5-24 µm. They have 3-4 germ pores arranged irregulary or at an equatorial zone of the spores, covered by distinct, flattish cups (Pl. I, 3).

## REFERENCES

- D a n i l k i e w i c z M., 1985. Notatki mikologiczne z doliny Krzny. Acta Mycol. XXI (1): 77-80.
- D a n i l k i e w i c z M., 1987 (1990). Grzyby pasożytnicze lewobrzeżnej doliny środkowego Bugu. Acta Mycol. XXIII : 37-80.
- D a n i l k i e w i c z M., 1987. Mikroskopowe grzyby pasożytnicze ląk i pastwisk doliny Krzny. Zesz. Problem. Postęp. Nauk Rol. 307: 91-104.
- M a j e w s k i T., 1977. Podstawczaki (Basidiomycetes), rdzawnikowe (Uredinales) I. [In:] Flora Polska, Grzyby. IX. Warszawa-Kraków, pp. 394, pl. I-III. – 1979. Ditto, II. Ibid. XI. pp. 426, pl. I-II.
- M u Fe n k o W., 1988 (1989). Mikroskopowe grzyby fitopatogeniczne Pojezierza Łęczyńsko-Włodawskiego. II. Acta Mycol. XXIV: 125-171.
- R o m a s z e w s k a S a ł a t a J., 1982. Nowe dla flory Polski i rzadziej spotykane gatunki mikroskopijnych grzybów fitopatogenicznych. Ann. UMCS, C, 37: 201-214.
- Romaszewska-Salata J., Mulenko W., 1983. Mikroskopijne grzyby fitopatogeniczne okolic Drohiczyna i Mielnika nad Bugiem. Ann. UMCS, C, 38: 19-36.