

NEW DISTRIBUTIONAL DATA ON BRYOPHYTES OF POLAND  
AND SLOVAKIA, 14

PIOTR GÓRSKI, ANNA RUSIŃSKA, TOMASZ M. KARPIŃSKI, ARTUR ADAMCZAK

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Editors of the column: PIOTR GÓRSKI, ANNA RUSIŃSKA

A. Adamczak, Department of Botany, Breeding and Agricultural Technology, Institute of Natural Fibres and Medicinal Plants, Kolejowa 2, 62-064 Plewiska, Poland, e-mail: artur.adamczak@iwnirz.pl

P. Górski, Department of Botany, Poznań University of Life Sciences, Wojska Polskiego 71 C, 60-625 Poznań, Poland, e-mail: piotr.gorski@up.poznan.pl

T.M. Karpiński, Department of Medical Microbiology, Poznań University of Medical Sciences, Wieniawskiego 3, 61-712 Poznań, Poland, e-mail: tkarpin@interia.pl, tkarpin@ump.edu.pl

A. Rusińska, Natural History Collections, Adam Mickiewicz University, Umultowska 89, 61-614 Poznań, Poland, e-mail: annarus@amu.edu.pl

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ABSTRACT. This work presents a list of new localities for *Dicranoweisia cirrata* and *Schljakovia kunzeana* in Poland and Slovakia.

### 1. *Dicranoweisia cirrata* (Hedw.) Milde

Authors: A. RUSIŃSKA, T.M. KARPIŃSKI, A. ADAMCZAK

ATMOS Gd-58: S Poland, MGRS 34UDV1154, Western Tatra Mts, Dolina Chochołowska Valley, PTTK shelter on Polana Chochołowska glade, alt. 1140–1150 m a.s.l., 49.236°N, 19.788°E, on humus and stone-concrete wall near the shelter, leg. T.M. Karpiński, 25.06.2002 (c. gem.), det. A. Rusińska (POZG).

*Dicranoweisia cirrata* is a Holarctic, circumboreal species, present in Europe, western North America, North Africa and Southwest Asia (HILL et al. 1992). The species has been considered by DÜLL (1984) as a suboceanic element of the bryoflora of Europe. It occurs on bark of various deciduous trees, especially on beeches (MICKIEWICZ 1965) and birches; it also grows sometimes on thatched roofs (BALCERKIEWICZ & RUSIŃSKA 1978), on exposed rocks, stone walls and erratic blocks.

The species has been reported in many localities in the Polish lowlands, especially in the north-western and central parts, for example, Wolin Island (LISOWSKI 1961, WILHELM et al. 2015), the vicinities of Szczecin (MICKIEWICZ 1965, FUDALI 1996, FUDALI et al. 2010), Kartuzy Lake district (RUSIŃSKA 1981), Polanów-Warcino forests (RUSIŃSKA et al. 2009) and other parts of Western Pommerania (RUSIŃSKA & URBAŃSKI 1989). *Dicranoweisia cirrata* has also been located in Wielkopolska (RUSIŃSKA & BOCHEŃSKI 1993, RUSIŃSKA et al. 2009), central Poland – for example Lodz province (WOLSKI 2016) and several localities of S Poland, like Lower Silesia (FUDALI 2011), Upper Silesia (STEBEL & PLÁŠEK 2001) and Ojców National Park (FOJCIK et al. 2007). It was also noted in mountainous areas, such as Beskidy Zchodnie (STEBEL 2006), Kaczawskie Mountains (WILCZYŃSKA 1974) and Ślęża Massif (BERDOWSKI 1974). During the last 30 years, the number of localities identified with this

species in Poland has visibly increased, also in places under anthropogenic influence, for example in the outskirts of towns (STEBEL & PLÁŠEK 2001, Rusińska – unpublished herbarium materials).

In the Polish Tatra Mountains, *D. cirrata* was collected from granite by A. Rehman at Czarny Staw pod Rysami Lake, and this finding, first in the Austro-Hungarian Monarchy, was published by JURATZKA (1882). The species was also recorded in the Slovakian High Tatra Mountains (Bielovodská dolina Valley), where it was collected by V. Greschik at an elevation of 1000 m (RÖLL 1904). However, *D. cirrata* has not been recorded in the Tatra Mountains for 100 years. The contemporary occurrence of this species in the Dolina Chochołowska Valley, the highest in Poland, is probably related to its tendency to expand to anthropogenically changed localities.

2. *Schljakovia kunzeana* (Huebener) Konst. et Vilnet  
[= *Barbilophozia kunzeana* (Huebener) Müll.  
Frib.]

Author: P. GÓRSKI

ATMOS Gd-59, S Poland, Western Tatra Mts, Masyw Czerwonych Wierchów, MGRS 34UDV1954: Twardy Uplaz, N slope, 49.23678°N, 19.89973°E, alt. 1955 m a.s.l., Polytrichum-Sphagnum hummock, *leg., det.* P. Górski, 31.07.2018, *c. gem.* (POZNB 2624); Twardy Uplaz, N slope, 49.23715°N, 19.90006°E, alt. 1906 m a.s.l., Polytrichum-Sphagnum hummock, *leg., det.* P. Górski, 31.07.2018, *c. gem.* (POZNB 2625, 2626); MGRS 34UDV2254, Wielkie Szerokie ridge (between Kondracka Przełęcz pass and Mt Kopa Kondracka), 49.24190°N, 19.93340°E, alt. 1863 m a.s.l., Polytrichum-Sphagnum hummock, *leg., det.* P. Górski, 30.07.2018 (POZNB 2630); ATMOS Gd-69: S Poland, Western Tatra Mts, Wierchy Tomanowo-Jamnickie, MGRS 34UDV1750, Hlińska Przełęcz pass, 49.20077°N, 19.87354°E, alt. 1902 m a.s.l., Polytrichum-Sphagnum hummock, *leg., det.* P. Górski, 3.07.2018 (POZNB 2608);

SLOVAKIA, WESTERN TATRA MTS: MGRS 34UDV0353, Roháče, ca 160 m E from Mt Pálenica (on ridge between Mt Pálenica and Mt Zuberec), 49.22637°N, 19.67026°E, alt. 1751 m a.s.l., Polytrichum-Sphagnum hummock, *leg., det.* P. Górski, 30.06.2018 (POZNB 2583); MGRS 34UDV0453, Roháče, Predný Salatín ridge, 49.22357°N, 19.68753°E, alt. 1846 m a.s.l., Polytrichum-Sphagnum hummock, *leg., det.* P. Górski, 30.06.2018, *c. gemm.* (POZNB 2581); MGRS 34UDV1547, Tomanovsko-jamnické vrchy, Mt Ježová, on ridge, ca 80 m NW from the top, 49.17025°N, 19.83423°E, alt. 2028 m a.s.l., Polytrichum-Sphagnum hummock, *leg., det.* P. Górski, 5.07.2018 (POZNB 2620); MGRS 34UDV1647, Tomanovsko-jamnické vrchy, S part of the Kobyla ridge, Przełęcz pod Szeroką pass, 49.17270°N, 19.85613°E, alt. 1914 m a.s.l., Polytrichum-Sphagnum hummock, *leg., det.* P. Górski,

2.07.2018 (POZNB 2571); MGRS 34UDV1647, Tomanovsko-jamnické vrchy, N part of the Kobyla ridge, 49.17795°N, 19.85233°E, Polytrichum-Sphagnum hummock, alt. 1963 m a.s.l., *leg., det.* P. Górski, 2.07.2018 (POZNB 2595); MGRS 34UDV1648, Tomanovsko-jamnické vrchy, N part of the Kobyla ridge, 49.17910°N, 19.85111°E, Polytrichum-Sphagnum hummock, alt. 1967 m a.s.l., *leg., det.* P. Górski, 2.07.2018 (POZNB 2570); MGRS 34UDV1848, Tomanovsko-jamnické vrchy, Hlina ridge, ca 1.1 km NW from Mt Hlinov vrch (Holý vrch), 49.18167°N, 19.88178°E, alt. 1855 m a.s.l., Polytrichum-Sphagnum hummock, *leg., det.* P. Górski, 3.07.2018 (POZNB 2599); MGRS 34UDV1848, Tomanovsko-jamnické vrchy, Hlina ridge, ca 815 m NW from Mt Hlinov vrch (Holý vrch), 49.17969°N, 19.88435°E, alt. 1888 m a.s.l., Polytrichum-Sphagnum hummock, *leg., det.* P. Górski, 3.07.2018 (POZNB 2607);

SLOVAKIA, HIGH TATRA MTS: MGRS 34UDV3551, Skupina Širokej, upper part of Spismichalova dolina valley, 49.21335°N, 20.12110°E, alt. 1865 m a.s.l., Polytrichum-Sphagnum hummock, *leg., det.* P. Górski, 30.08.2015 (POZNB 2632, +3); MGRS 34UDV3652, Skupina Širokej, 49.22050°N, 20.12547°E, NE slope below Horvátov vrch, alt. 1846 m a.s.l., *leg., det.* P. Górski, 2.08.2015, *c. gem.* (POZNB 2628, +3); MGRS 34UDV3750, Bielovodsko-studenovodské masívy, Zelená Javorová dolinka valley, 49.20614°N, 20.14623°E, alt. 1767 m a.s.l., blocks of rock in the middle part of the valley, *leg., det.* P. Górski, 7.07.2015 (POZNB 2586, +3); MGRS 34UDV4252, Javorovo-kežmarské masívy, west from Predné Kopské sedlo pass, 49.22601°N, 20.21434°E, alt. 1857 m a.s.l., Polytrichum-Sphagnum hummock, *leg., det.* P. Górski, 29.08.2018 (POZNB 2631).

In the entire area of the Tatra Mts, 118 localities of *Schljakovia kunzeana* have been recorded, within an altitude range of 965–2375 m a.s.l. (GÓRSKI & VÁŇA 2014 and literature cited, GÓRSKI 2016, 2017). This report presents another 16 localities for this plant in this massive. It is worth noting that during the 1950s, this species was considered very rare in the Tatra Mts, having three records only (SZWEYKOWSKI 1956). At present, this liverwort is not endangered or rare in these mountains. It grows mostly in the alpine belt, in *Polytrichum-Sphagnum* hummocks (SZWEYKOWSKI & BUCZKOWSKA 2000, CYKOWSKA 2011).

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